625-EMD-224

EOSDIS Maintenance and Development Project

Training Material for the EMD Project
Volume 4: Data Distribution

Revision --

March 2009

Raytheon Information Solutions
Riverdale, Maryland

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Volume 4: Data Distribution

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Preface

This document is a formal contract deliverable. It requires Government review and approval within 45 business days. Changes to this document will be made by document change notice (DCN) or by complete revision.

Any questions should be addressed to:

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Revision History

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Abstract

This is Volume 4 of a series of lessons containing the training material for the Earth Observing System Data and Information System (EOSDIS) Maintenance and Development (EMD) Project. This lesson provides a detailed description of the process required for data distribution.

Keywords: training, instructional design, course objective, distribution, data distribution, Product Distribution System, Order Management Subsystem, OMS, Order Manager, Release 7.22

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Contents

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Introduction

Identification

Training Material Volume 4 is part of Contract Data Requirements List (CDRL) Item 23, which is a required deliverable under the Earth Observing System Data and Information System (EOSDIS) Maintenance and Development (EMD) Contract (NAS5-03098).

Scope

Training Material Volume 9 describes the process and procedures for data distribution. This lesson is designed to provide the operations staff with sufficient knowledge and information to satisfy all lesson objectives.

Purpose

The purpose of this Student Guide is to provide a detailed course of instruction that forms the basis for understanding data distribution. Lesson objectives are developed and will be used to guide the flow of instruction for this lesson. The lesson objectives will serve as the basis for verifying that all lesson topics are contained within slide presentation material.

Status and Schedule

This lesson module provides detailed information about training for the current baseline of the system. Revisions are submitted as needed.

Organization

This document is organized as follows:

Introduction:	The Introduction presents the document identification, scope, purpose, and organization.
Related Documentation:	Related Documentation identifies parent, applicable and information documents associated with this document.
Student Guide:	The Student Guide identifies the core elements of this lesson. All Lesson Objectives and associated topics are included. The Student Guide consists of a Slide Presentation is reserved for all slides used by the instructor during the presentation of this lesson.

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Related Documentation

Parent Documents

The parent documents are the documents from which the EMD Training Material's scope and content are derived.

423-41-01	Goddard Space Flight Center, EOSDIS Core System (ECS) Statement of Work
423-46-03	EMD Task 101 Statement of Work for ECS SDPS Maintenance
423-46-02	Contract Data Requirements Document for EMD Task 101 ECS SDPS Maintenance

Applicable Documents

The following documents are referenced within this EMD Training Material, or are directly applicable, or contain policies or other directive matters that are binding upon the content of this document:

420-05-03	Goddard Space Flight Center, Earth Observing System (EOS) Performance Assurance Requirements for the EOSDIS Core System (ECS)
423-41-02	Goddard Space Flight Center, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) (ECS F&PRS)
423-46-01	Goddard Space Flight Center, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) Science Data Processing System (EMD F&PRS)

Information Documents

Information Documents Referenced

The following documents are referenced herein and amplify or clarify the information presented in this document. These documents are not binding on the content of the EMD Training Material.

609-EMD-220	Release 7.22 Operations Tools Manual for the EMD Project
611-EMD-220	Release 7.22 Mission Operation Procedures for the EMD Project

Information Documents Not Referenced

The following documents, although not referenced herein and/or not directly applicable, do amplify or clarify the information presented in this document. These documents are not binding on the content of the EMD Training Material.

305-EMD-220	Release 7.22 Segment/Design Specifications for the EMD Project.
311-EMD-220	Release 7.22 INGEST (INS) Database Design and Schema Specifications for the EMD Project.
311-EMD-224	Release 7.22 Order Manager Database Design and Database Schema Specifications for the EMD Project.
311-EMD-225	Release 7.22 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EMD Project.
311-EMD-226	Release 7.22 Data Pool Database Design and Schema Specifications for the EMD Project.
311-EMD-227	Release 7.22 Archive Inventory Management (AIM) Database Design and Schema Specifications for the EMD Project.

Data Distribution Overview

Lesson Overview

This lesson will provide you with the complete process by which the Distributed Active Archive Center (DAAC) personnel perform data distribution, including order management using the Order Manager (OM) graphical user interface (GUI). The processes described in the lesson apply to Distribution Technicians. The procedures involved in OM GUI operation include such tasks as launching the OM GUI, responding to an open intervention, viewing distribution request information, viewing a completed intervention, and checking OM queue status.

Lesson Objectives

Overall Objective - The overall objective of the Data Distribution lesson is for personnel involved in maintenance and operation of the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) to develop proficiency in the procedures that apply to data distribution.

Condition - The student will be given oral or written information and requirements for performing data distribution activities, access to the Data Server Subsystem, access to the OM GUI, a copy of 609-EMD-220, *Release 7.22 Operations Tools Manual for the EMD Project*, and a copy of 611-EMD-220, *Release 7.22 Mission Operation Procedures for the EMD Project*.

Standard - The student will perform data distribution activities in accordance with the prescribed procedures without error.

Specific Objective 1 - The student will describe the general functions and processes associated with data distribution.

Condition - The student will be given written or oral questions concerning the general functions and processes associated with data distribution.

Standard - The student will state without error the general functions and processes associated with data distribution in accordance with the lesson content and the applicable procedures.

Specific Objective 2 - The student will perform the steps involved in logging in to system hosts.

Condition - The student will be given a statement of the requirements for logging in to system hosts, access to the Data Server Subsystem (using a workstation), a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will access the command shell, set the DISPLAY environmental variable, and log in to the specified host using secure shell and the specified user ID.

Specific Objective 3 - The student will perform the steps involved in monitoring/controlling data distribution requests, including configuring data distribution polling, filtering data distribution requests, changing the priority of distribution requests, suspending/resuming distribution requests, and canceling distribution requests.

Condition - The student will be given a statement of the requirements for monitoring/controlling data distribution requests, access to the previously launched Data Distribution Operator GUI in the Data Server Subsystem (using a workstation), a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will monitor/control data distribution requests (including configuring data distribution polling, filtering requests, and changing the status of distribution requests as directed) and respond to questions concerning the current status of distribution requests.

Specific Objective 4 - The student will perform the steps involved in launching the Order Manager (OM) GUI.

Condition - The student will be given a statement of the requirements for launching the OM GUI, access to system hosts (using a workstation), a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will log in to an appropriate host using secure shell, enter the command to start the Netscape browser, enter the URL to access the OM GUI in the specified mode, and enter the appropriate user name and password in the security dialogue box.

Specific Objective 5 - The student will perform the steps involved in viewing open intervention information on the OM GUI.

Condition - The student will be given a statement of the requirements for viewing open intervention information on the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Open Interventions link and the Open Intervention Detail page for a specific open intervention and will respond to questions concerning the intervention.

Specific Objective 6 - The student will perform the steps involved in responding to an open intervention using the OM GUI.

Condition - The student will be given a statement of the requirements for responding to an open intervention using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Open Interventions link, select the specified intervention, assign self to work on the intervention, select the appropriate attributes for the intervention, apply the attributes, and confirm the disposition of the intervention.

Specific Objective 7 - The student will perform the steps involved in monitoring and controlling distribution requests on the OM GUI.

Condition - The student will be given a statement of the requirements for monitoring and controlling distribution request information on the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Distribution Requests link and respond to questions concerning distribution request status, change the priority of a distribution request (if applicable), suspend, resume, cancel, resubmit, or stop a distribution request (if applicable), view open intervention information (if applicable), edit ftp push parameters (if applicable), view operator alerts (if applicable), view to staging requests (if applicable), and/or view ftppush distribution requests (if applicable).

Specific Objective 8 - The student will perform the steps involved in changing the priority of a distribution request using the OM GUI.

Condition - The student will be given a statement of the requirements for changing the priority of a distribution request using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the priority from the option button in the Priority column of the row associated with the specified request and apply the selected priority.

Specific Objective 9 - The student will perform the steps involved in suspending, resuming, canceling, resubmitting, or stopping a distribution request using the OM GUI.

Condition - The student will be given a statement of the requirements for suspending, resuming, canceling, resubmitting, or stopping a distribution request using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to click on the appropriate button in the Action column of the row associated with the request, respond to the applicable dialogue box(es), initiate an intervention to resubmit the specified request (if resubmitting a request), specify the appropriate attributes of the intervention as specified in the requirements (if resubmitting a request), and confirm the disposition of the intervention (if resubmitting a request).parameters.

Specific Objective 10 - The student will perform the steps involved in viewing open HDF-EOS to GeoTIFF Conversion Tool (HEG) intervention information on the OM GUI.

Condition - The student will be given a statement of the requirements for viewing open HEG intervention information on the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD

Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the HEG Interventions link and the HEG Intervention Detail page for a specific HEG intervention and will respond to questions concerning the intervention.

Specific Objective 11 - The student will perform the steps involved in responding to an open HEG intervention using the OM GUI.

Condition - The student will be given a statement of the requirements for responding to an open HEG intervention using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the HEG Interventions link, select the specified intervention, assign self to work on the intervention, select the appropriate disposition for the intervention, and confirm the disposition of the intervention.

Specific Objective 12 - The student will perform the steps involved in viewing pending HEG granules on the OM GUI.

Condition - The student will be given a statement of the requirements for viewing pending HEG granules on the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Pending HEG Granules link and will respond to questions concerning specific granules as displayed on the Pending HEG Granules page.

Specific Objective 13 - The student will perform the steps involved in viewing operator alerts on the OM GUI.

Condition - The student will be given a statement of the requirements for viewing operator alerts on the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Operator Alerts link, respond to questions concerning specific alerts as displayed on the Operator Alerts page, select the corresponding details link in the Alert Info column, and respond to questions concerning alert details as displayed on the detail page.

Specific Objective 14 - The student will perform the steps involved in viewing a completed operator action or intervention using the OM GUI.

Condition - The student will be given a statement of the requirements for viewing a completed operator action or intervention using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Request Management link, select the Completed Operator Actions & Interventions link, and respond to questions concerning a specified completed action or intervention as displayed on the Completed Operator Actions and Interventions page.

Specific Objective 15 - The student will perform the steps involved in viewing and responding to suspended ftp push distribution destinations using the OM GUI.

Condition - The student will be given a statement of the requirements for viewing and responding to suspended ftp push distribution destinations using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the FtpPush Monitor link, select the Suspended Destinations link, respond to questions concerning the information displayed on the Suspended Destinations page, select the Resume button to resume a suspended destination, either enter the destination name (for a destination to be suspended) in the Destination Name textbox or type the host name in the FTP Node textbox, and select the Suspend button to suspend an active destination.

Specific Objective 16 - The student will perform the steps involved in checking and modifying OM queue status using the OM GUI.

Condition - The student will be given a statement of the requirements for checking and modifying OM queue status using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the OM Status Pages link, select the OM Queue Status link, respond to questions concerning OM queue status, select the appropriate state from the correct Change State option button as directed, and apply the state change(s).

Specific Objective 17 - The student will perform the steps involved in checking and modifying HEG order status using the OM GUI.

Condition - The student will be given a statement of the requirements for checking and modifying HEG order status using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the HEG Order Status link, and respond to questions concerning HEG order status.

Specific Objective 18 - The student will perform the steps involved in checking staging status using the OM GUI.

Condition - The student will be given a statement of the requirements for checking staging status, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the OM Status Pages link, select the Media Type link or FTP Push Destination link as directed, and respond to questions concerning staging status as displayed on the staging status pages.

Specific Objective 19 - The student will perform the steps involved in checking and modifying OM configuration parameters.

Condition - The student will be given a statement of the requirements for checking and modifying OM configuration parameters, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the OM Configuration link, select the Aging Parameters, Server/Database, Media or FTP Push Policy link as directed, respond to questions concerning configuration parameters as displayed on the configuration parameters pages, enter the new value(s) in the textbox(es) for the relevant parameter(s), and apply the new value(s).

Specific Objective 20 - The student will perform the steps involved in adding a destination to the frequently used destinations list.

Condition - The student will be given a statement of the requirements for adding a destination to the frequently used destinations list, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the OM Configuration link, select the FTP Push Policy link, select the Add a Destination button, enter value(s) in the textbox(es) for the relevant attribute(s)/parameter(s) as directed, select the retry mode from the option button as directed, enter the applicable text in the Notes textbox as directed, apply the values entered for the new destination, and confirm the new destination.

Specific Objective 21 - The student will perform the steps involved in viewing the OM GUI log.

Condition - The student will be given a statement of the requirements for viewing the OM GUI log, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Logs link, select the OM GUI Log Viewer link, enter the appropriate number of lines to be displayed (as directed), initiate viewing of the log, and respond to questions concerning entries in the OM GUI log.

Specific Objective 22 - The student will perform the steps involved in viewing PMD open intervention information on the OM GUI.

Condition - The student will be given a statement of the requirements for viewing PMD open intervention information on the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Physical Media Distribution Open Interventions link and the PMD Open Intervention Detail page for a specific open intervention and will respond to questions concerning the intervention.

Specific Objective 23 - The student will perform the steps involved in responding to a PMD open intervention using the OM GUI.

Condition - The student will be given a statement of the requirements for responding to a PMD open intervention using the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Physical Media Distribution Open Interventions link, select the specified intervention, assign self to work on the intervention, select the appropriate disposition for the intervention, and confirm the disposition of the intervention.

Specific Objective 24 - The student will perform the steps involved in checking and modifying PMD device configuration.

Condition - The student will be given a statement of the requirements for checking and modifying PMD device configuration, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Physical Media Distribution Device Configuration link, respond to questions concerning device configuration as displayed on the Physical Media Distribution Device Configuration page, and change the on-line or off-line status of a device (as directed).

Specific Objective 25 - The student will perform the steps involved in monitoring and controlling PMD media creation on the OM GUI.

Condition - The student will be given a statement of the requirements for monitoring and controlling PMD media creation on the OM GUI, access to the previously launched OM GUI (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will use the OM GUI to select the Media Creation Actions link and respond to questions concerning PMD request status, respond to system prompts to activate a request, mount media for production, collect media for QC, activate media for QC, mount media for QC, and assemble the package.

Specific Objective 26 - The student will perform the steps involved in preparing an input file for use with the OMS Configuration CI.

Condition - The student will be given a statement of the requirements for preparing an input file for use with the OMS Configuration CI, access to system hosts (using a workstation), a copy of 609 EMD 220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611 EMD 220, Release 7.22 Mission Operation Procedures for the EMD Project.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will access a terminal window logged in to the Linux Server host, enter the path to the “utilities” directory, use text editor commands to create a file that specifies the relevant values (as directed) to be sent to the OMS.

Importance

This lesson applies to students who will be Distributed Active Archive Center (DAAC) Distribution Technicians. The lesson will provide them with the knowledge and skills needed when performing their assigned tasks. Those tasks include the following types of activities:

- Launching the Data Distribution Operator GUI.
- Monitoring/controlling data distribution requests.
- Using the OMS configuration script (OMS Configuration CI)
- Modifying system parameters.

The lesson describes why and how the activities are performed. Consequently, the students will become aware of what tasks they will be performing on the job and how to accomplish those tasks.

Slide Presentation

Slide Presentation Description

The following slide presentation represents the slides used by the instructor during the conduct of this lesson.

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Data Distribution

March 2009

Overview of Lesson

- **Distribution Concepts**
  - System Context Diagram
- **Order Manager (OM) Subsystem**
  - Support for External Processors
  - Flow Diagram
  - OM Server Components
- **Order Manager Services**
  - OM GUI Functionalities
- **Order Manager GUI**
  - System Hosts Login
  - OM GUI Home Page
  - Operator Security
  - Active Tools
  - Order Manager (OM) GUI Operations

Distribution Concepts

- **Data Distribution is accomplished at the Distributed Active Archive Centers (DAACs).**
- **DAAC Operator manages order distribution requests using a web browser and performs direct updates to the Order Manager Service (OMS) Database.**
- **The Order Manager Service (OMS) manages all data orders via:**
  - **EWOC** [EOSDIS ClearingHOuse (ECHO) Web Service Distribution Language (WSDL) Ordering Component (OC)].
  - **Data Pool (DPL)** – talks directly to OMS and stages granules.
  - **Spatial Subscription Server (NBSRV)** – talks directly to OMS; automatic product request generated based on subscription criteria.
  - **Science Command Line Interface (OmSCLI)** – allows acquired products by Order Manager Server.

Distribution Concepts (cont.)

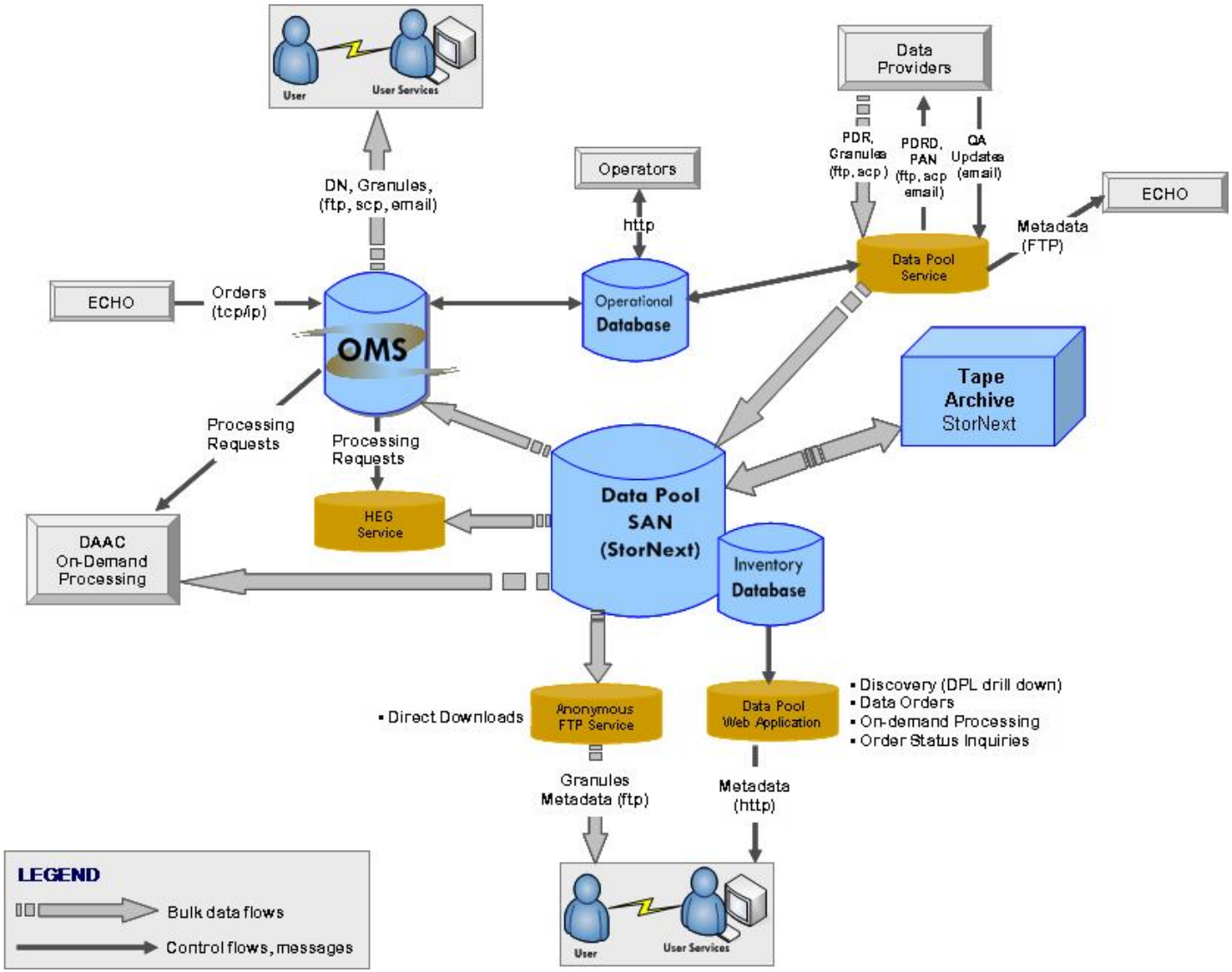
- **OM Server validates all data order requests received into the OM Subsystem (OMS), then dispatches each validated request to the appropriate order-fulfillment service.**
- **OMS manages distribution of data by two methods:**

  1 – Electronically (directly distribute data from staged files linked to DPL storage directory):
  - FtpPush/SCP
  - FtpPull.

  2 – Physical Media (created by the Production Module Device on physical media):
  - Digital Linear Tape (DLT)
  - Digital Video Disk (DVD)
  - Compact Disk (CD).

NOTE: ***Physical Media*** **is utilized by LPDAAC only.**

Distribution Concepts
System Context Diagram (cont.)



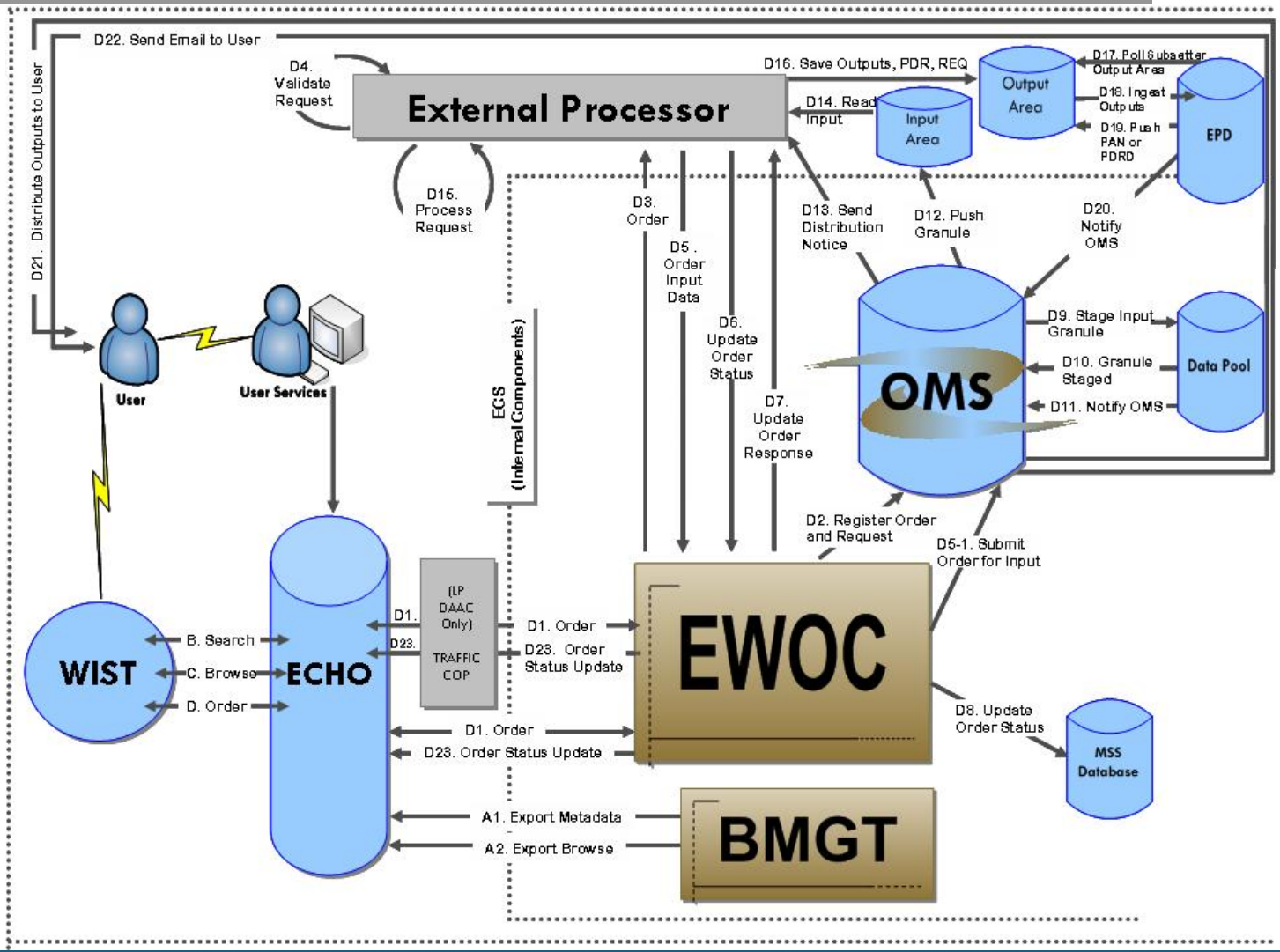
Order Manager Subsystem
Support for External Processors

- OMS manages order from WIST, ECHO and the External Processor via EWOC (including hard-media orders and HDF-EOS to GeoTIFF (HEG) Conversion Tool orders).
- OMS stages each order to DPL storage and creates links from staged files to the FtpPull directory or distribution.
- OMS Graphical User Interface (GUI) allows managing and distributing orders directly to the OM database.
- EWOC registers external processing “orders” with OMS.
- EPD registers external processing “outputs” with OMS.

Order Manager Subsystem
Support for External Processors (cont.)

- **OMS distributes external processing outputs like any other data (e.g., HEG processing outputs):**
  - OMS displays external processing orders with associate labels.
  - DAAC can configure separate DN preamble, FTP Pull expiration.
  - Operator actions are disabled until OMS has control; No resubmit.
  - Operator can suspend/cancel/stop/resume acceptance of orders for external processor.
- **Some Support for ASTER On-Demand:**
  - No granule identifiers in DN.
  - [.REQ] file is not distributed.
  - PDR changes (backwards compatible).

Order Manager Subsystem
Flow Diagram



Order Manager Subsystem
OM Server Components

- **OM Server has four major parts:**

1 – Sybase ASE Server:

- COTS SW application handling order management-related interactions with the Order Management database.

2 – Order manager (OM) GUI:

- Allows viewing and modifications of requests by Operator.
- Permits suspend, resume, cancel, resubmit or modify functions.

3 – Physical Media Device (Luminex):

- Transfers products electronically.
- Transfers digital products to three physical media types.
- Prints labels and inserts for physical media distribution.

4 – OMS Bulk Browse Utility (ECSBBR):

- Extracts browse cross-reference and copies into DPL(SAN) non-existing browse granule files.
- Updates granule files list in OMS to include DP copied files.

Order Manager Services
OM GUI Functionalities

- **General functions and processes associated with data distribution operations can be performed as follows:**
  - Logging into the system.
  - Viewing/Responding to Open Interventions
  - Viewing/Filtering Completed Operator Actions and Interventions
  - Viewing/Filtering Distribution Requests Data
  - Filtering Processing Service Requests
  - Filtering FtpPush/SCP (or Staging) Requests
  - Handling Operator Alerts
  - Viewing/Responding to Suspended FTP Push Distribution Destinations
  - Viewing Historical Distribution Requests
  - Viewing Historical Processing Requests

Order Manager Services
OM GUI Functionalities (cont.)

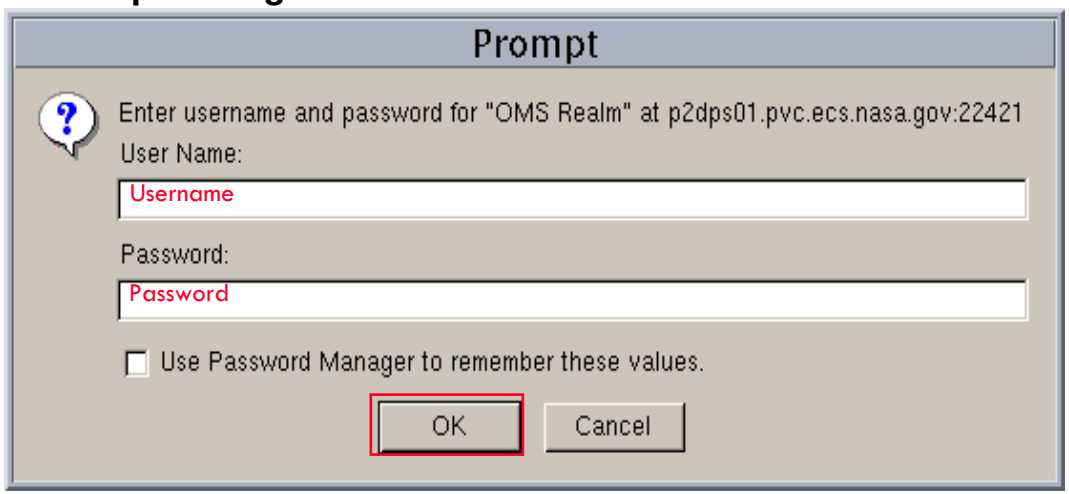
- **General functions and processes associated with data distribution operations can be performed as follows:**
  - Viewing/Modifying OM Queue Status
  - Viewing HEG Order Status
  - Viewing Staging Status
  - Viewing Pending HEG Granules
  - Viewing Data Pool File System Status
  - Checking/Modifying Assigned Values of Aging Parameters
  - Checking/Modifying Assigned Values of OMS Server and Database Parameters
  - Checking/Modifying Assigned Values of Media Parameters
  - Checking/Modifying Assigned Values of Media Creation Parameters
  - Adding/Deleting User Email Address that will receive ODL Metadata File
  - Adding/Deleting User Email Address that will receive Checksum File

Order Manager Services
OM GUI Functionalities (cont.)

- **General functions and processes associated with data distribution operations can be performed as follows:**
  - Checking/Modifying External Processing Services Configurations
  - Viewing/Modifying FtpPush/SCP Policy Configurations
  - Using the PMD Media Creation Console
  - Filtering/Modifying PMD Device Configurations
  - Responding to Open PM Interventions
  - Modifying Existing PMD Printer Configuration
  - Modifying Existing PMD Production Module Configuration
  - Printing PMD Reports
  - Adding/Deleting Compressed Format ESDTs
  - Viewing Distribution Requests Order Status Pages
  - Viewing the OM GUI Log

Order Manager GUI
System Hosts Login

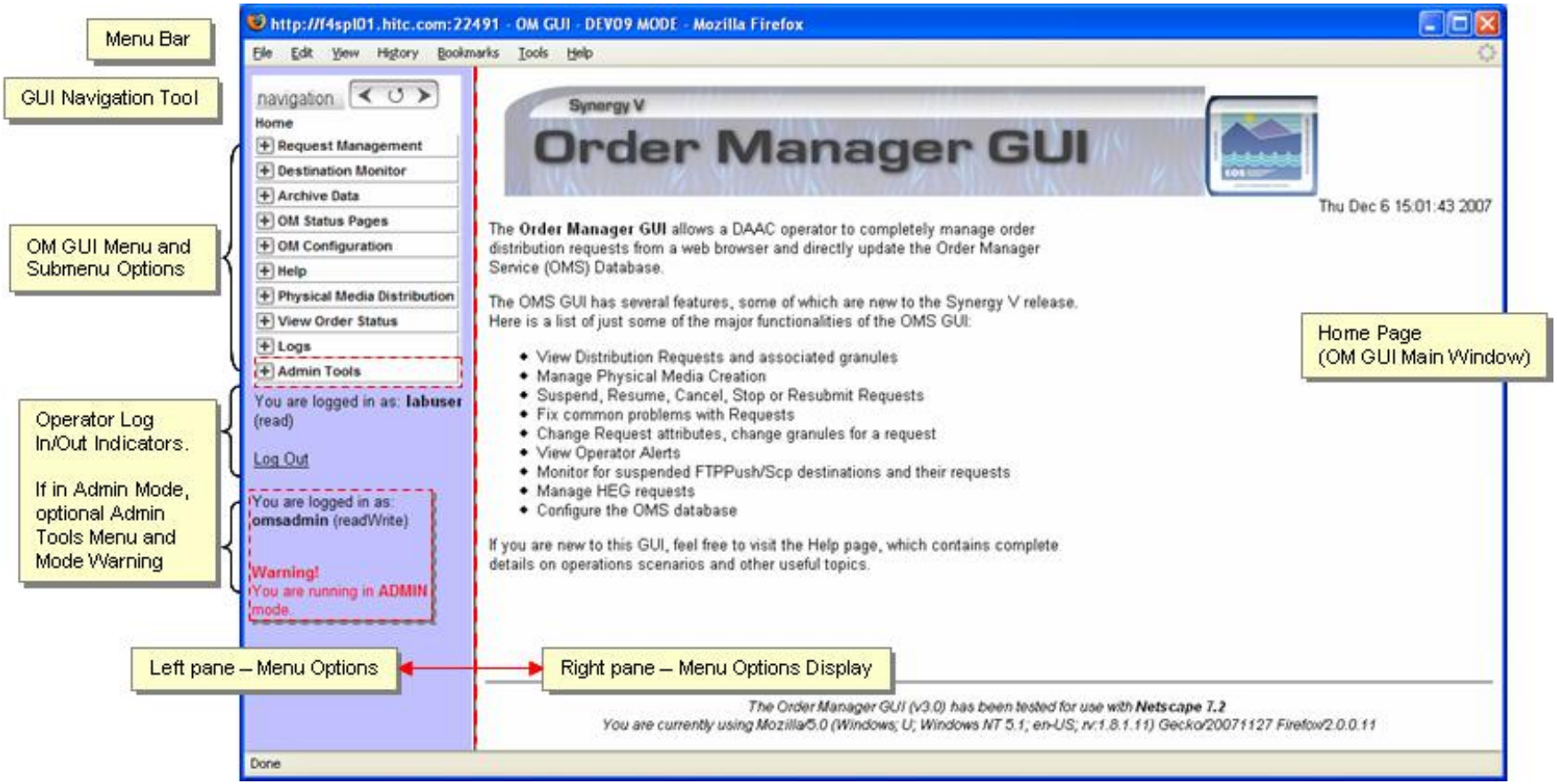
- **Activating the OM GUI requires a terminal with a host logon to access a recommended web browser, i.e., Mozilla 5.0, Netscape 7+, Firefox 0.9+, generic "Mozilla" for Linux or UNIX.**
- **Procedure: Logging into the System**
  - Enter **URL** (http://x4iil01.<DAAC_extension>:<port>).
  - Enter Security Login **Prompt** information.
    - **Figure: Prompt dialog box**



  - Click **OK** to launch the Order Manager GUI (Home Page).

Order Manager GUI
OM GUI Home Page

❖**Figure: Order Manager GUI (Home Page)**



Order Manager GUI
OM GUI Home Page (cont.)

Order Manager GUI Menu		
Navigation Menu Option	**Submenu Options**	
❑ **Request Management** provide options to manage all validated requests; provide interventions capabilities; and process subsetting. It also allow Operators to fix common problems with requests within the OMS GUI.	▪Open Interventions ▪HEG Interventions ▪Completed Actions & Interventions ▪Distribution Requests [filter]	▪Processing Service Requests [filter] ▪FtpPush/SCP Requests [filter] ▪Staging Requests [filter] ▪Operator Alerts
❑ **Destination Monitor** provide monitoring capability to suspend distributions and resume them.	▪Suspended Destinations	
❑ **Archive Data** is the repository for all historically distributed and processed requests.	▪Historical Distribution Requests [filter]	▪Historical Processing Requests [filter]
❑ **OM Status Page** displays summary information of current request processing states i.e., suspended or active, for each media server or email. It also displays each archive server's staging status.	▪OM Queue Status ▪HEG Order Status ▪Staging Status: –Media Type –FTP Push Destination –SCP Destination	▪Pending HEG Granules ▪DPL File System Status

Order Manager GUI
OM GUI Home Page (cont.)

Order Manager GUI Menu		
Navigation Menu Options	**Submenu Options**	
❑ **OM Configuration** allows Operator to configure aging rules for each priority level – Aging Parameters; to set database and server parameters, which affect the entire system – Server/Database Configuration; and to set and adjust media types attributes – Media Configuration. Provides checksum validation on OMS distributed files, which allow Users to perform validity tests against their granules.	▪Aging Parameters ▪Server/Database –[All] –[queue], [cleanup], [email], [media], [staging], [partition], [misc.], [HEG]	▪Media ▪Media Creation ▪ODL Metadata Users ▪Checksum Users ▪External Processing ▪FtpPush/SCP Policy
❑ **Help** provide guidelines to using the OMS GUI.	▪About HelpOnDemand…	▪Help
❑ **Physical Media Distribution** controls and some configurations for creating and distribution Physical Media.	▪Media Creation Console ▪Device Configuration ▪Open Interventions ▪Printer Configuration	▪PM Configuration ▪Reports ▪ESDT Configuration
❑ **View Order Status** provides a visual display of viewing multiple levels of a particular order status.	▪OM GUI Order Status	
❑ **Logs** displays a log viewer – a convenient diagnostic tool that displays all current activity in the OM GUI. Records of every running page and stored procedure are recorded in the log file located under « cgi-bin/logs » directory.	▪OM GUI Log Viewer	
❑ **Admin Tools** administers and maintains FC or LC Operator's read (r) and/or read/write (rw) permissions to all fields of every OM GUI pages.	▪Server/Database Parameters ▪Media Parameters ▪Aging Parameters	▪FtpPush Policy ▪Action Pages ▪Profile Management

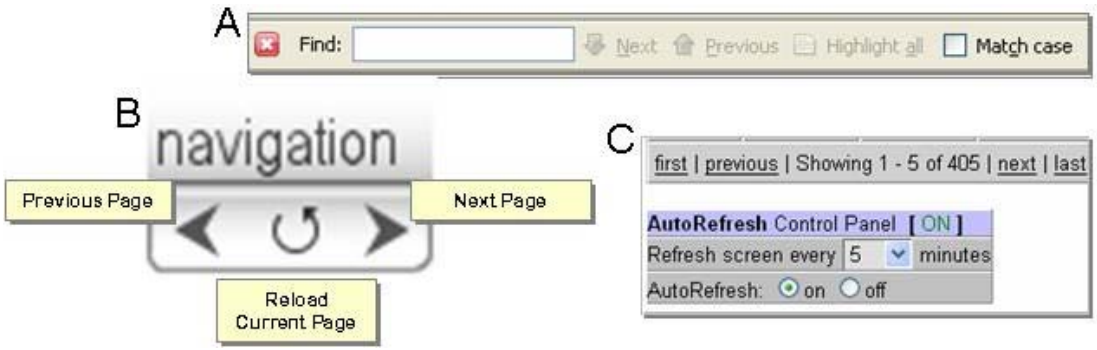
Order Manager GUI
Operator Security

OM GUI Operator Security Capabilities	
Role	**Capability**
❑ **Full-Capability (FC) Operator**	▪Primary level activities do not limited the ability to configure parameters; view all levels of interventions activities; view and change actions for distribution request lists and detailed information; monitor and configure OM Server and OM Database parameters; etc.
❑ **Limited-Capability (LC) Operator**	▪Secondary level activities are limited to the basic functionality of monitoring and viewing.
❑ **Administrator**	▪Administers read and/or read/write permissions to FC and/or LC Operators for the purpose of viewing, monitoring, configuring, and/or maintaining all fields of the OM GUI.

Order Manager GUI
Active Tools

- **Active Tools for OM GUI Pages:**
  - **Frame A: Browser "Find in this Page (Ctrl+F)" search tool:**
    - The browser search menu option features keyword search of the data within the current screen (page) display.
  - **Frame B: OM GUI navigation tool:**
    - Features ability to review previous/next page or to reload current page show on the OM GUI.
  - **Frame C: OM GUI AutoRefresh tool:**
    - The AutoRefresh Control Panel, displayed at bottom of most OM GUI pages, can be set to automatically reload an active page by designated minutes.

❖ **Figure: Find (A), Navigation (B) and AutoRefresh (C) Tools**



Order Manager GUI
Request Management

❑ OM GUI – REQUEST MANAGEMENT

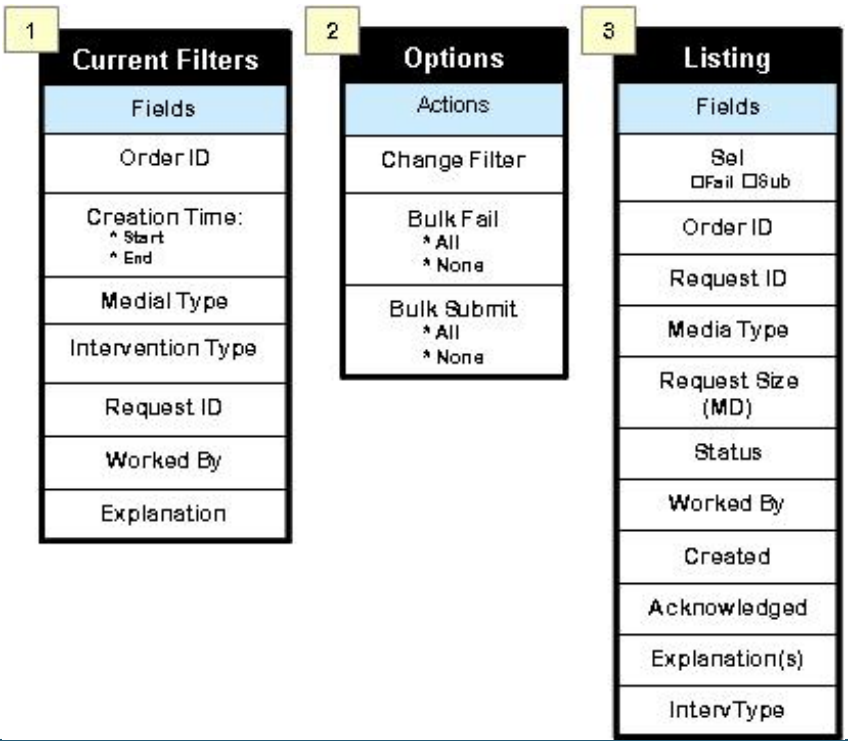
- **The Operator is provided options to manage, monitor and control open/completed interventions. Allowing intervention capabilities helps to ensure eligible requests, from varying order sources, are distributed or handled appropriately. The action to process subsetting is also available. Non-fatal errors and warnings related to data space/storage, ftpPush/SCP destination, and server warnings are functions handled within the OM GUI.**
- **Request Management submenus:**
  - Open Interventions.
  - HEG interventions.
  - Completed Actions & Interventions.
  - Distribution Requests [filter].
  - Processing Service Requests [filter].
  - FtpPush/SCP Requests [filter].
  - Staging Requests [filter].
  - Operator Alerts.

OM GUI
Request Management (cont.)

- **Request Management – Open Interventions**
  - **Provides list of all the currently open Operator interventions that require action. Interventions can be managed using a Change Filter, Bulk Fail and/or Bulk Submit features on the page.**
  - **Interventions activities performed to:**
    - Select a different granule to replace an unavailable granule.
    - Fail selected granule(s). [**NOTE:** A permanent action that cannot be canceled after a confirmed action.]
    - Change the attributes (distribution medium, disable limit checking, update parameters and [.XML] to [.ODL] format conversion) for a request.
    - Attributes changes to update FtpPush/SCP parameters option will edit the existing (related) FtpPush information when the intervention is closed.
    - Change the disposition: Resubmit, Fail, or Partition (divide) a request.
  - **Failing a granule is a permanent action, if confirmed, cannot be canceled.**
  - **Standard media capability limits for a particular media type (i.e., FtpPush, FtpPull, SCP) can be override, using the Disable Limit Checking attributes options.**
  - **The Reset button on pages, it simply resets the Request Level Disposition options to their original value.**

OM GUI
Request Management (cont.)

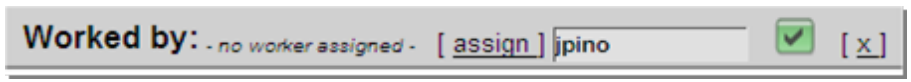
- **Request Management – Open Interventions**
  - **Open Interventions Page has three working parts:**
    1 – Current Filter (Frame 1) – pre-defined filter criteria.
    2 – Options (Frame 2) – features to change filter, bulk fail or bulk submit requests.
    3 – Listing (Frame 3) – requested distribution filtered output.



OM GUI
Request Management (cont.)

- **Request Management – Open Interventions**
  - **Procedure: Viewing/Responding to Open Interventions**
    - Click **Request Management** menu, then click submenu **Open Interventions**.
    - Specify the **Show <number> rows at a time** display: Under Listing, select **20**.
    - Organize/Sort page by creation time, in ascending order: Click **Created** label.
    - Display detailed data of order: Click a specified **Order ID <number>**.
    - View Open Interventions For Request <ID> details: Click a specified **Request ID <number>.**
    - Assign a Worker: Click the **assign** link and enter **<employeeID>** in input box, then click the **green-checked** button to confirm.

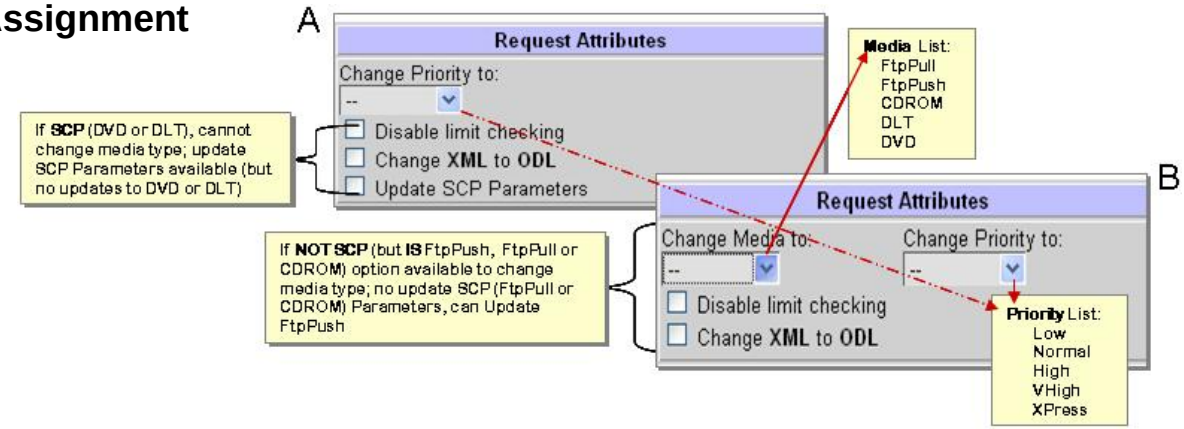
    ❖ **Figure: Worker Assignment**



    - Manually Fail Granule: Under **Granule List** section, Locate **Explanation, "Manual fail required"** and click **Fail** checkbox, then click **Submit Actions** button.
    - Change granule attributes to alter the characterization or features, under **Request Attributes** section, click **Change Media to** arrow and choose new type; click **Change Priority to** arrow and select new priority; click **Disable limit checking** checkbox to disable size limit.

OM GUI
Request Management (cont.)

- **Request Management – Open Interventions**
  - **Procedure: Viewing/Responding to Open Interventions (cont.)**
    - **Figure: Worker Assignment**



- Change **Request Disposition**: Click **Fail Request** option, then click **Apply** to commit changes.

    - **Figure: Request Level Disposition**

- Close the Close Interventions page, as appropriate by entering **Additional e-mail text**, if sending e-mail message to the requester or click **Don't send e-mail** checkbox, then click **OK.**
- Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
Request Management (cont.)

- **Request Management – Open Interventions**
  - **Figure: Open Interventions Page**

Open Interventions

Current Filters

Order ID: None | Request ID: None | Worked By: None
Creation Time: | Start: Jan 9 2007 10:42AM | End: Jan 10 2008 10:42AM
Media Type: | Explanation: ALL
Intervention Type: ALL

Explanation: ALL

Options

Change Filter | Bulk Fail | Bulk Submit

All None | All None

Click on a request ID to view more details.

Listing

Go directly to row [ ] ok of 540 rows Show 50 rows at a time.

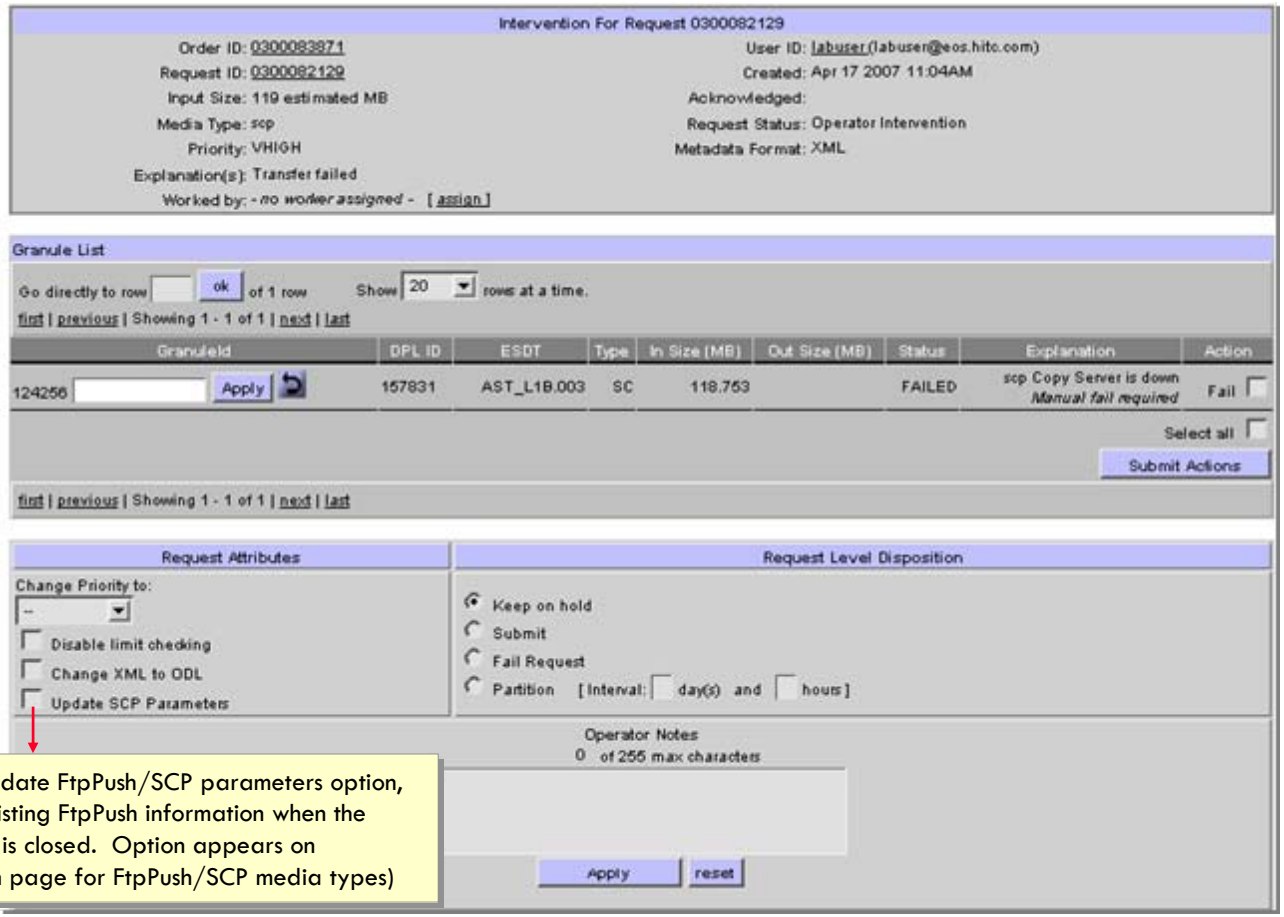
first | previous | Showing 1 - 50 of 540 | next | last

Sel Fail	Sel Sub	Order ID	Request ID	MediaType	Request Size(MB)	Status	Worked By	Created	Acknowledged	Explanation(s)	IntervType
☐	☐	2000013584	2000013940	FtpPush	2	PENDING		Jan 9 2008 3:16PM		Failed transferring Request Canceled Transfer failed	Operator Intervention
☐	☐	2000013582	2000013938	FtpPush	2	PENDING		Jan 9 2008 12:14PM		Ftp Login Errors Request Canceled Transfer failed	Operator Intervention
☐	☐	2000013577	2000013933	FtpPush	< .5	IN-WORK	omsadmin	Jan 9 2008 11:22AM	Jan 9 2008 11:38AM	FtpPush Directory does not Exist or No Write Permission Transfer failed	Operator Intervention
☐	☐	2000013566	2000013922	FtpPush	154	PENDING		Dec 18 2007 12:48PM		Request Resubmitted	Operator Intervention
☐		2000013464	2000013820	DLT	11	PENDING		Dec 18 2007 12:42PM		Media Creation Stopped	Media Creation Error
☐	☐	2000013561	2000013917	FtpPush	< .5	PENDING		Nov 27 2007 1:38PM		Ftp Login Errors Transfer failed	Operator Intervention
☐	☐	2000013560	2000013916	FtpPush	< .5	IN-WORK	omsadmin	Oct 18 2007 4:16PM	Oct 25 2007 12:05PM	Failed by Operator Transfer failed	Operator Intervention
☐	☐	2000013559	2000013915	FtpPush	< .5	PENDING		Oct 18 2007 4:11PM		Failed transferring Transfer failed	Operator Intervention
☐		2000009817	2000010182	DVD	154	PENDING		Oct 16 2007 9:24AM		Media Creation Error	Media Creation Error

OM GUI
Request Management (cont.)

❑ Request Management – Open Interventions

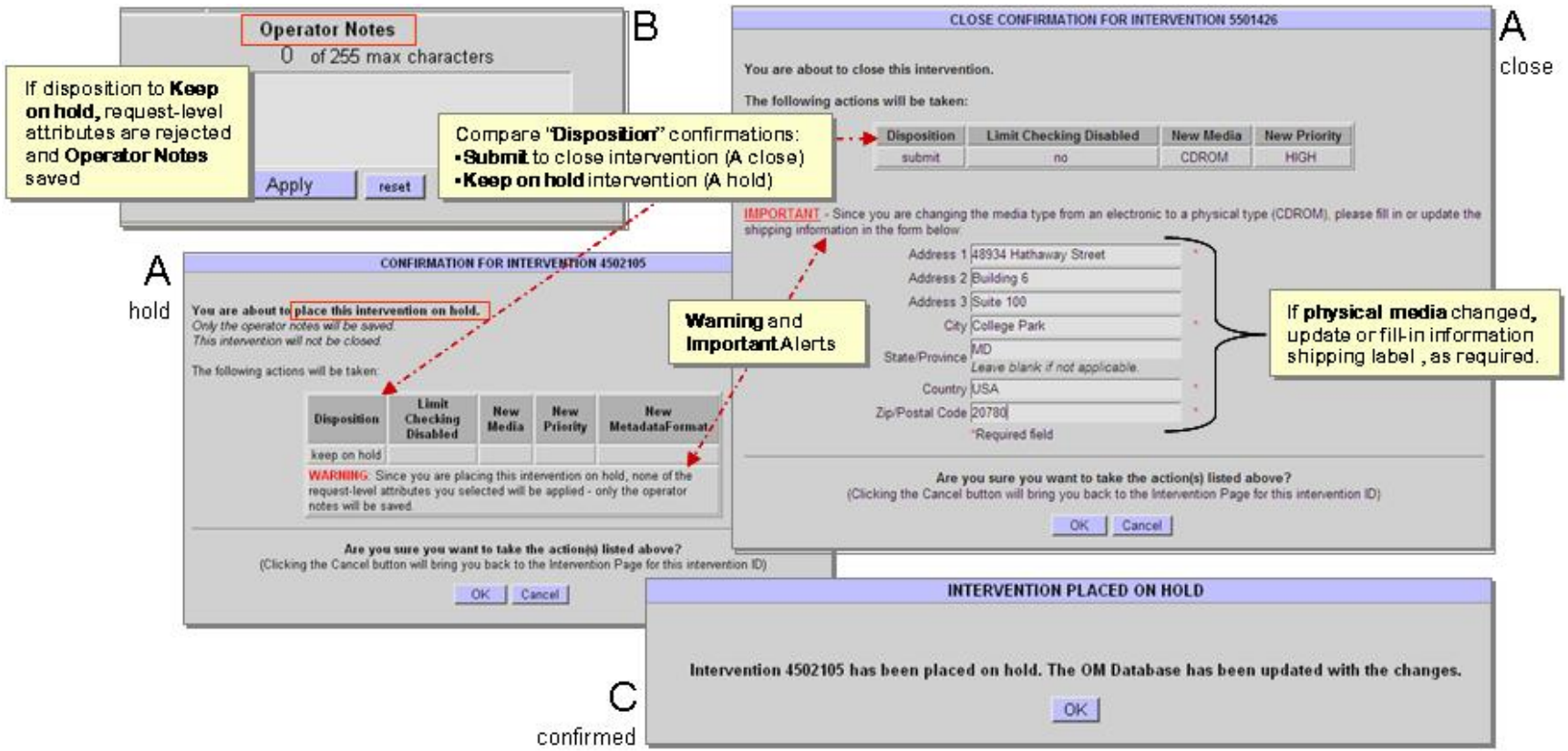
❖ Figure: Interventions For Request <ID> Page



NOTE: Update FtpPush/SCP parameters option, edits the existing FtpPush information when the intervention is closed. Option appears on confirmation page for FtpPush/SCP media types)

OM GUI
Request Management (cont.)

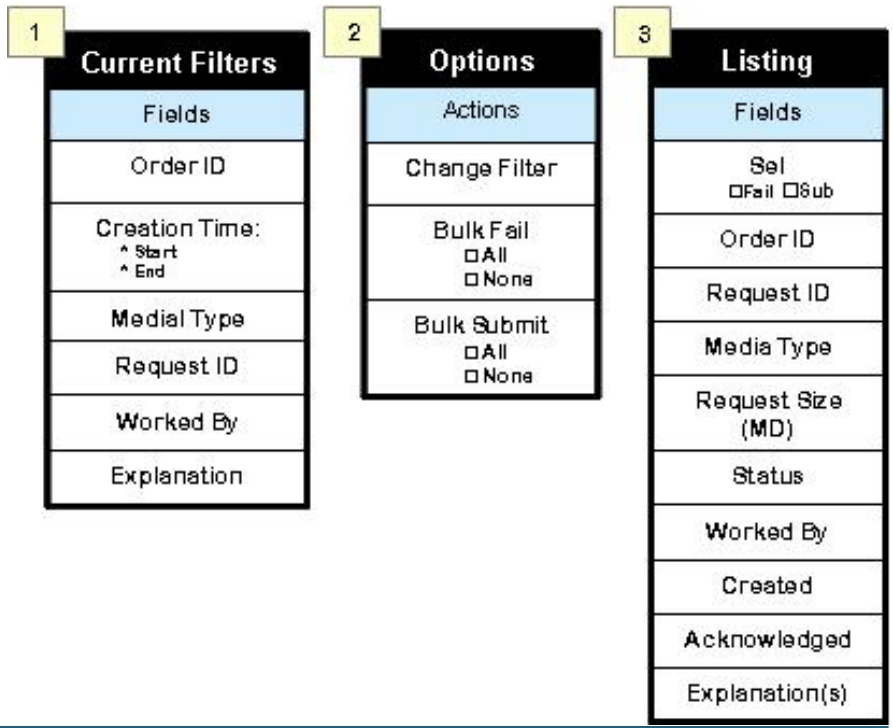
- **Request Management – Open Interventions**
  - **Figure: Close Confirmation for Intervention (FtpPush/SCP changed to CDROM)**



OM GUI
Request Management (cont.)

❑ Request Management – HEG Interventions

- **HEG Interventions processing involve "line items" and associated detailed links. HEG orders contain a mix of granule types. The Open HEG Interventions page provides Operator the capability to:**
  - Assign/Change Worker.
  - Fail selected granule(s).
  - Fail a request.
  - Change request's disposition level.
- **Open Interventions Page has three working parts:**
  - 1 – Current Filter – pre-defined filter criteria.
  - 2 – Options – features to change filter, bulk fail or bulk submit requests.
  - 3 – Listing – requested distribution filtered output.

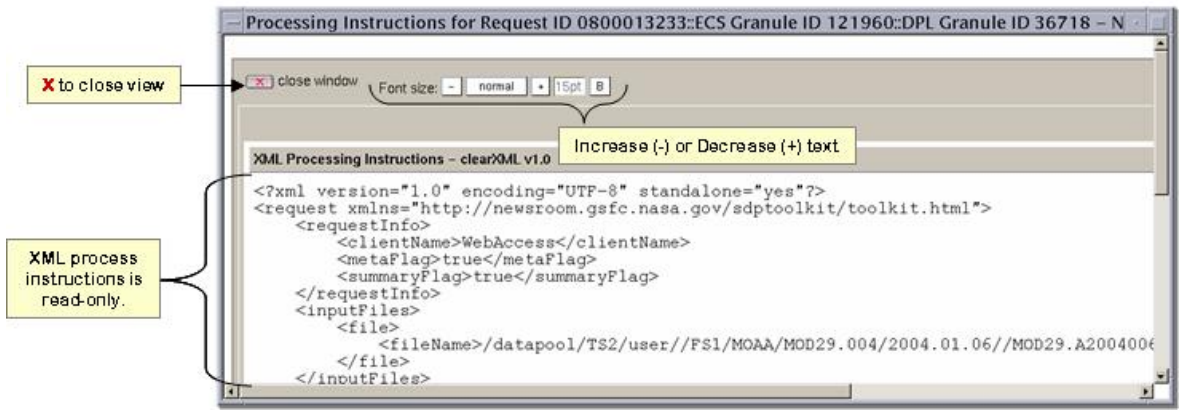


OM GUI
Request Management (cont.)

❑ Request Management – HEG Interventions

- **Procedure: Viewing/Responding to Open Interventions**
  - Click **Request Management** menu, then click submenu **HEG Interventions**.
  - Specify the **Show <number> rows at a time** display: Under **Listing**, select **20**.
  - View open HEG Interventions For Request <ID> details: Click a specified **Request ID <number>**.
  - Assign a Worker: Click the **assign** link and enter **<employeeID>** in input box, then click the **green-checked** button to confirm.
  - View processing instructions detailed data related to a granule ID, click **[View…]** link, under the **Processing Instructions** column heading in the **Input Granule List** section of the details page. Click the red, **X-close window** link, returns to open HEG Interventions For <Request ID> page.

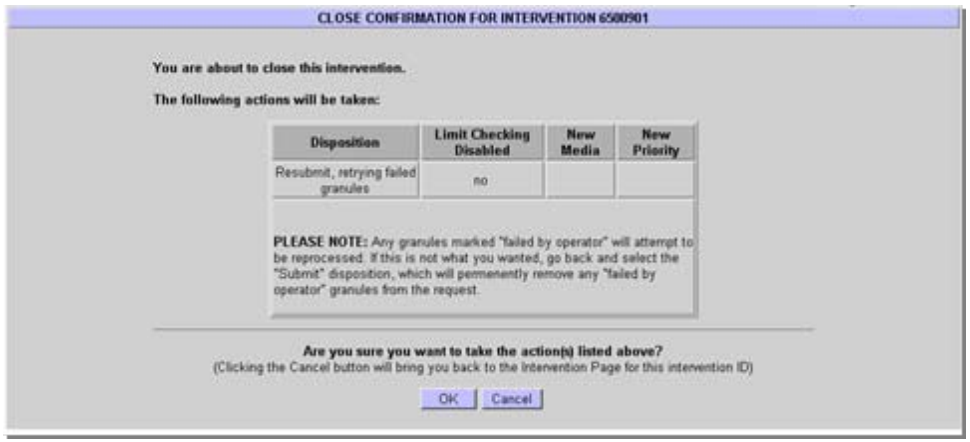
❖ **Figure: Processing Instructions for Request <ID> Window**



OM GUI
Request Management (cont.)

- **Request Management – HEG Interventions**
  - **Procedure: Viewing/Responding to Open Interventions**
    - To Fail Action(s) on request(s): Under **Input Granule List** section, select the **Fail** or **Select all** (bulk fail) checkbox under the **Action** column section. Select one or more **Request Level Disposition** options. Enter **Operator Notes**. Click **Apply** to commit/submit action, then click **OK** button to confirm closure of the Intervention(s).

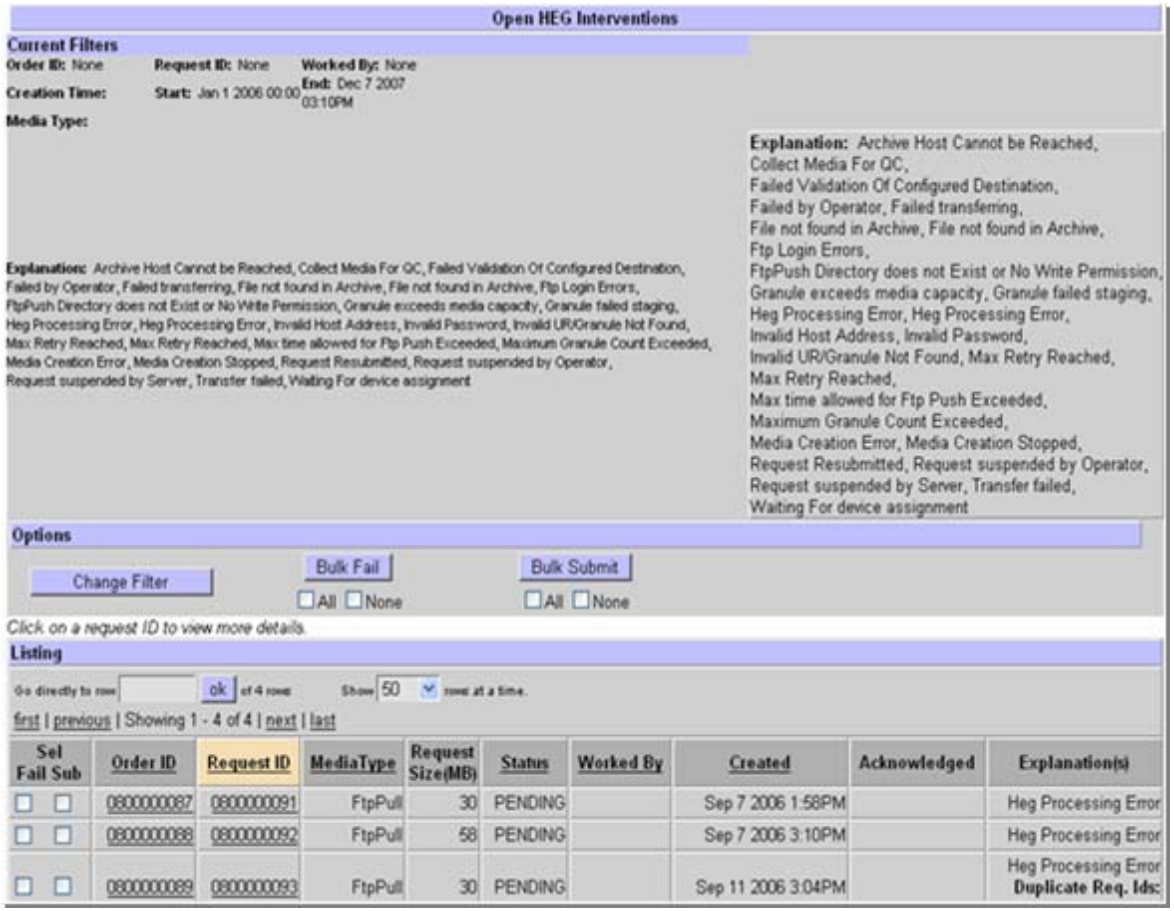
❖ **Figure: Close Confirmation For Intervention <ID> Page**



- Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
Request Management (cont.)

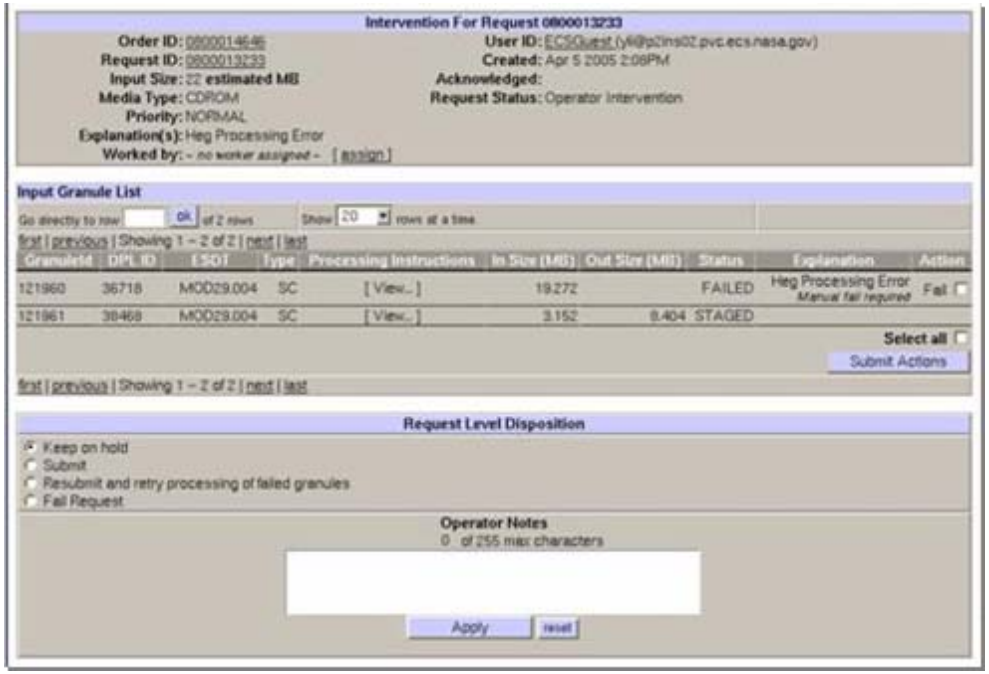
- **Request Management – HEG Interventions**
  - **Figure: Open HEG Interventions Page**



OM GUI
Request Management (cont.)

❑ Request Management – HEG Interventions

❖ **Figure: Open HEG Interventions For Request <ID> Details Page and its Table (Fields and Actions).**



1 **Intervention For Request <n>**

Fields
Order ID
Request ID
Input Size
Media Type
Priority
Explanation(s)
Worked by [assign]
User ID
Created
Acknowledge
Submit Actions

2 **Input Granule List**

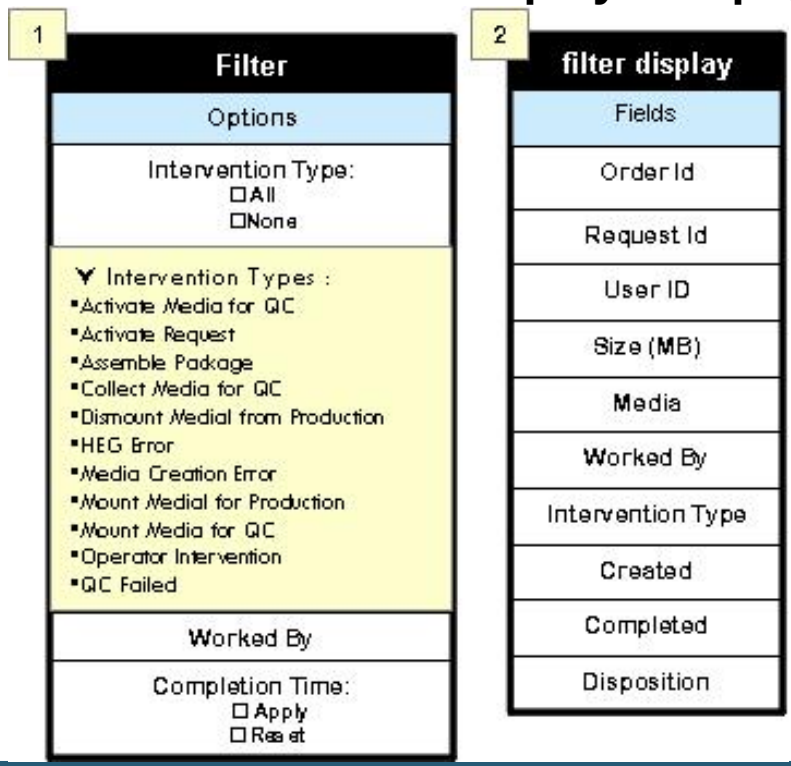
Fields
Granule ID
DPL ID
ESDT
Type
Processing Instructions [View...]
In Size (MB)
Status
Explanation
Action ☐Fail ☐Select all
Submit Actions

3 **Request Level Disposition**

Actions
☐Keep on hold
☐Submit
☐Resubmit and retry processing of failed granules
☐Fail Request
Operator Notes (input field)
Apply
reset

OM GUI
Request Management (cont.)

- **Request Management – Completed Operator Actions and Interventions**
  - **Displays all recently closed interventions, including those that have been resubmitted, partitioned or failed. By default, the interventions are filtered by "completion time," within the last 24 hours.**
  - **Operator defined filtered results displays on page as described in this table:**



OM GUI
Request Management (cont.)

- **Request Management – Completed Operator Actions and Interventions**
  - **Procedure: Viewing/Filtering Completed Operator Actions and Interventions**
    - Click **Request Management** menu, then click submenu **Completed Actions and Interventions**.

❖ **Figure: Completed Operator Actions and Interventions**

- Specify the **Show <number> rows at a time** display: Under Filter, select **20**.
- To define the filter criteria: Under the **Filter** section, select one or more **Intervention Type**; select an available User or All Users from the **Worked By** list box, then define the **Completion Time** (the start to end times). Finally, click the **Apply** button to apply the filter.
- The Completed Operator Actions and Interventions page refreshes with the filtered results.
- To display detailed information of a request, click a **Request Id <number>** link in the list to display the **Completed Operator Action For Request <ID>** page.

OM GUI
Request Management (cont.)

- **Request Management – Completed Operator Actions and Interventions**
  - **Procedure: Viewing/Filtering Completed Operator Actions and Interventions**
    - To view Processing Instructions (details) related to a granule ID: Click the **View…** link, under **Processing Instructions** column heading in the **Granule List** section of page. Click the **red-X close window** text to return to the **Completed Operator Action For Request <ID>** page.
    - **Figure: Completed Operator Action For Request <ID> Page**

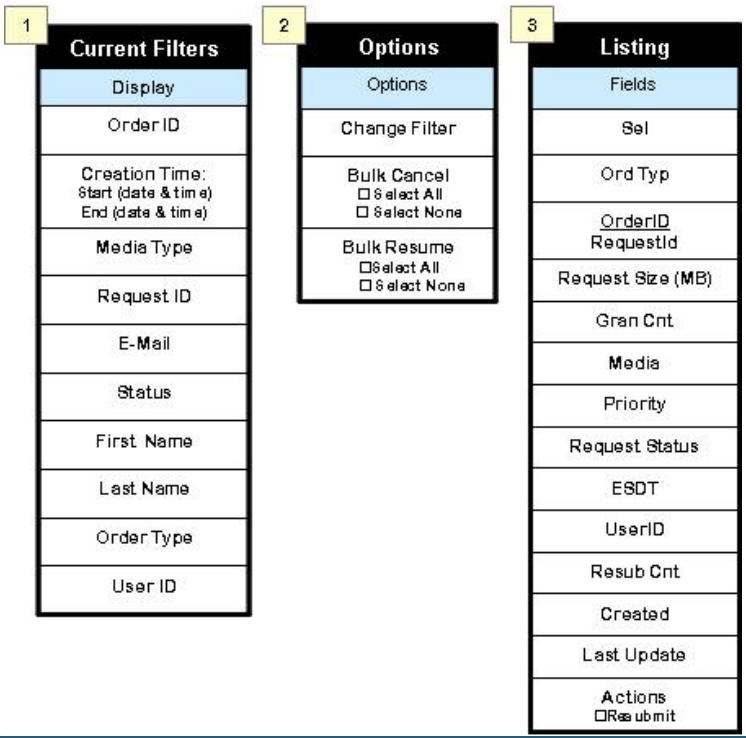
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
Request Management (cont.)

- **Request Management – Distribution Requests [filter]**
  - **The Distribution Request page allows Operators (either full-capability or limited-capability) the ability to filter and view lists of all currently distributed requests processed through Order Manager from all order sources. The data distribution functions eligible on requests:**
    - Suspend new request processing.
    - Suspend or cancel individual requests.
    - Change the priority of any request.
  - **In addition to these capabilities, the Operator can view extensive details of FTP Push distribution and staging requests by selecting order id or request id column links.**
  - **OM GUI pages are tracked with a Session ID, which provides the Operator quick access to filter options used during a particular session:**
    - For example, an individual Operator's previously defined filter criteria can be retrieved from the Session data so the filter criteria do not have to be redefined every time.

OM GUI
Request Management (cont.)

- **Request Management – Distribution Requests [filter]**
  - **Open Interventions Page has three working parts:**
    1 – Current Filter (Frame 1) – pre-defined filter criteria.
    2 – Options (Frame 2) – change filter, bulk cancel (All or None), bulk resume.
    3 – Listing (Frame 3) – captures requested distributions filtered output.

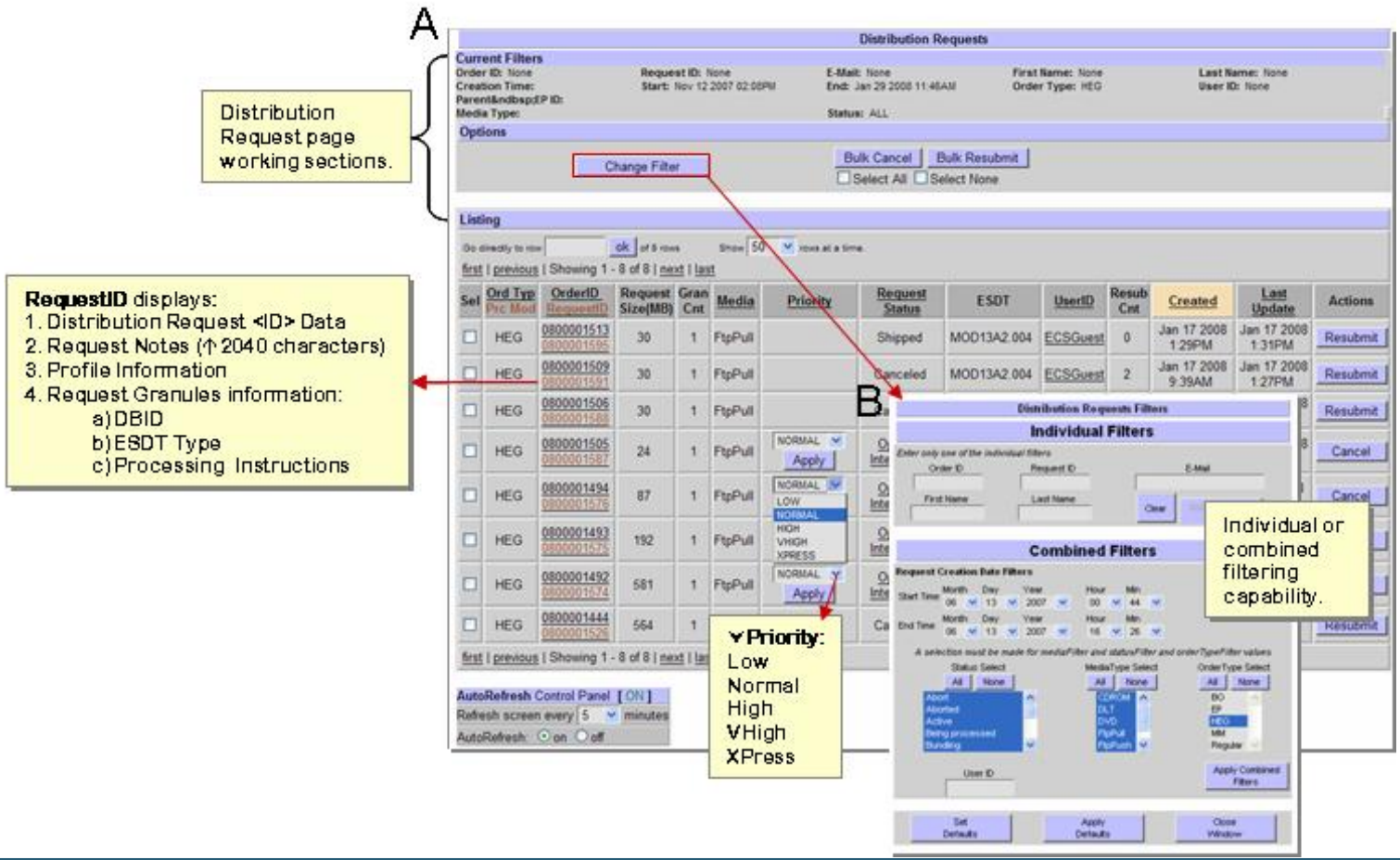


OM GUI
Request Management (cont.)

- **Request Management – Distribution Requests [filter]**
  - **Procedure: Viewing/Filtering Distribution Requests Data**
    - Click **Request Management** menu, then click submenu **Distribution Requests [filter]**.
    - To perform a specific action (suspend, resume, cancel resubmit or stop a distribution request) on a distribution request from the **Actions** column options, on the page:
      - Click the appropriate **Action** button associated with the request (or the **appropriate button** in the **Action** row on the Distribution Request Detail page), then click the **applicable response** from the associated actions dialog box.
    - To define the filter criteria: Under the **Options** section, click the **Change Filter** button to display two filter criteria sections for **Individual** or **Combined Filters**. Then create a combined filter as follows:
      - Select a **Start Time** and **End Time**.
      - Make multiple **Status Select** selections using the **<Ctrl>** key.
      - Select **All** for **Media Type Select**.
      - Select **HEG** for **Order Type Select**, then click **Apply Combined Filters** button.
    - The Distribution Requests Filters window closes and displays the Distribution Requests results.
    - To display profile information for a request, click **ECSGuest** under the **UserID** column.
    - The PROFILE FOR ECSGuest Order ID <ID> window displays six information parts.
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

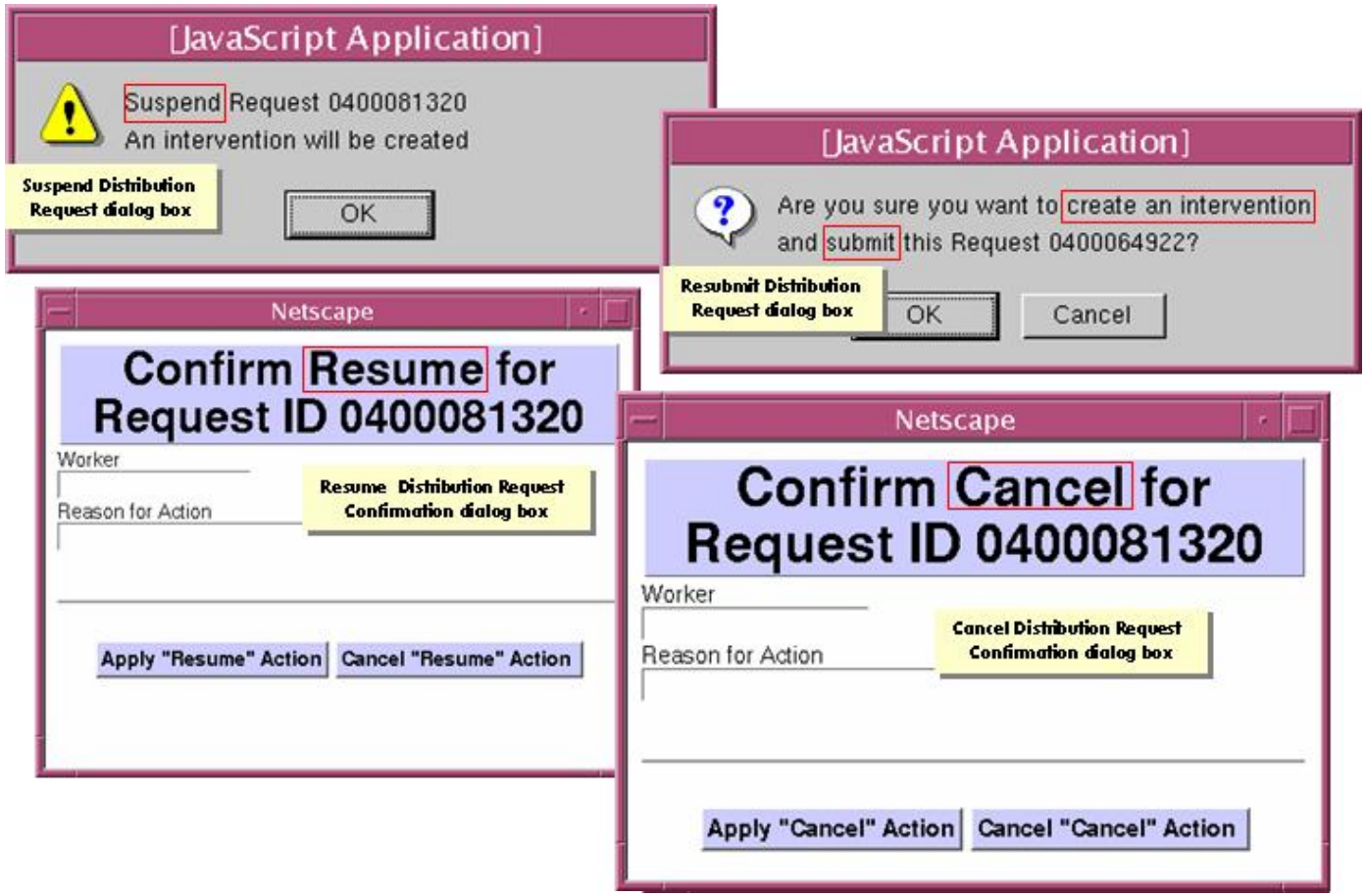
OM GUI
Request Management (cont.)

- **Request Management – Distribution Requests [filter]**
  - **Figure: Distribution Requests Page and Filter Window**



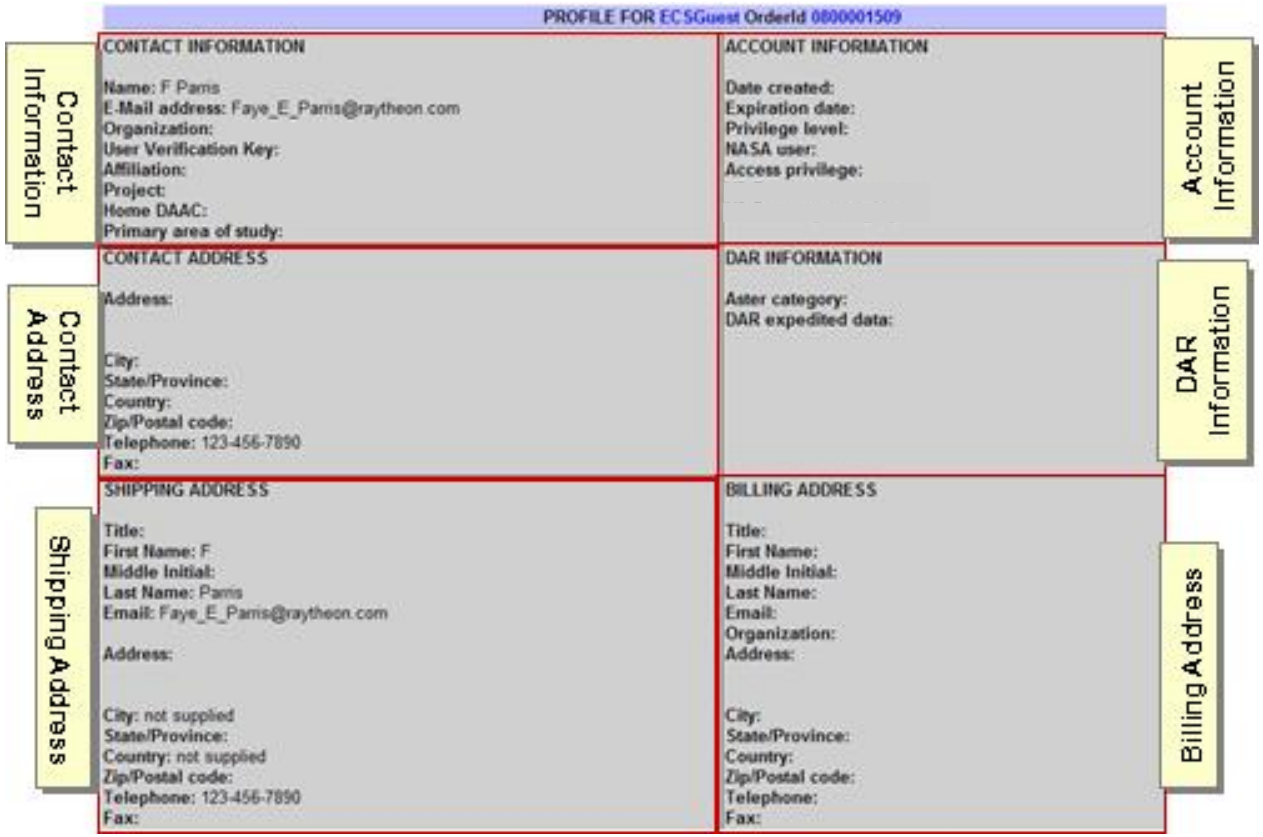
OM GUI
Request Management (cont.)

- **Request Management – Distribution Requests [filter]**
  - **Figure: Distribution Requests Actions Response Dialog Boxes**



OM GUI
Request Management (cont.)

- **Request Management – Distribution Requests [filter]**
  - **Figure: PROFILE FOR ECSGuest Orderid <ID>**



OM GUI
Request Management (cont.)

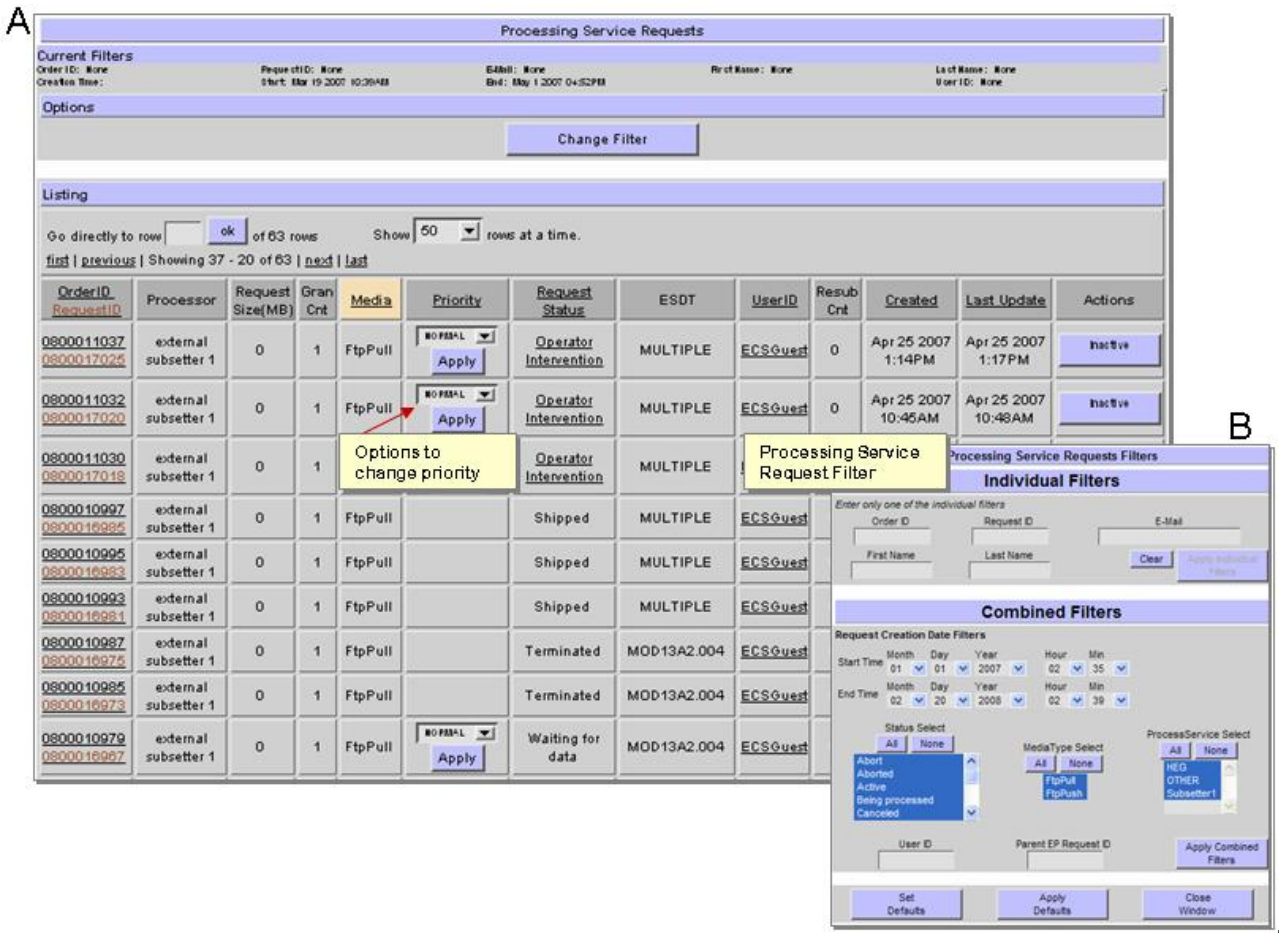
- **Request Management – Processing Service Requests [filter]**
  - **The Processing Service Requests page allows Operators (either full-capability or limited-capability) the ability to cancel or suspend the external processing requests still under OMS control. Although, requests under the external system can not be canceled or suspended by the Operator.**
  - **Processing Services Filter includes options to filter on external processing service (external subsetter requests) or HEG in addition to other selections.**

OM GUI
Request Management (cont.)

- **Request Management – Processing Service Requests [filter]**
  - **Procedure: Filtering Processing Service Requests**
    - Click **Request Management** menu, then submenu **Processing Service Requests [filter]**.
    - To define a combined filter criteria:
      - Under the **Options section**, click the **Change Filter** button to display the **Processing Service Requests Filters** window.
      - Under the **Combined Filter** section of the filter, select **criteria**:
        - Request Creation Date (Start Time) = "**01 01 2007**
        - Status Select = **All** button
        - Media Type Select = **All** button
        - Process Service Select = **All** button
      - Click the **Apply Combined Filters** button, to apply the combined filter criteria and refresh the **Processing Service Requests** page.
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
Request Management (cont.)

- **Request Management – Processing Service Requests [filter]**
  - **Figure: Processing Services Requests Page (A) and Filter (B)**



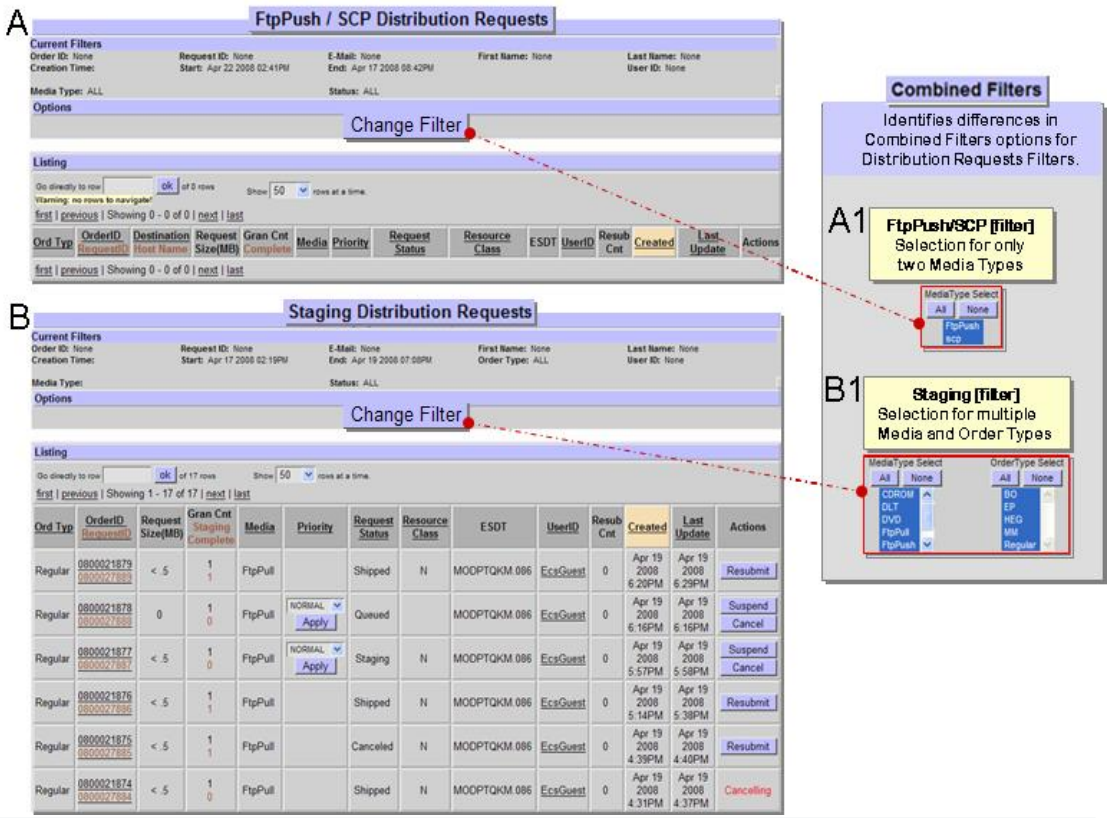
OM GUI
Request Management (cont.)

- **Request Management – FtpPush/SCP (or Staging) Requests [filter] Page**
  - **Distribution filters allow Operators (either FC or LC) to view extensive details of FtpPush/SCP and/or Staging distribution requests currently processed through Order Manager (from all order sources).**
  - **FtpPush/SCP and Staging distribution requests pages allows Operator the priority of (or suspend) a distribution request while the to:**
    - Change requested granules are in a staged (or pushed) waiting state.
    - Resume a request that was suspended by the OM GUI Operator or while the processing of new requests by the OMS is suspended.
    - Resubmit a request in a terminal state (e.g., aborted, cancelled, terminated, or shipped).
    - Cancel a request that is not in a terminal state and while the requested granules are in a staged (or pushed) waiting state.

OM GUI
Request Management (cont.)

- **Request Management – FtpPush/SCP (or Staging) Requests [filter] Page**
  - **Procedure: Filtering FtpPush/SCP (or Staging) Requests**
    - Click **Request Management** menu, then submenu **FtpPush/SCP Requests [filter]** (or submenu **Staging Distribution Requests [filter]**) to display its page.

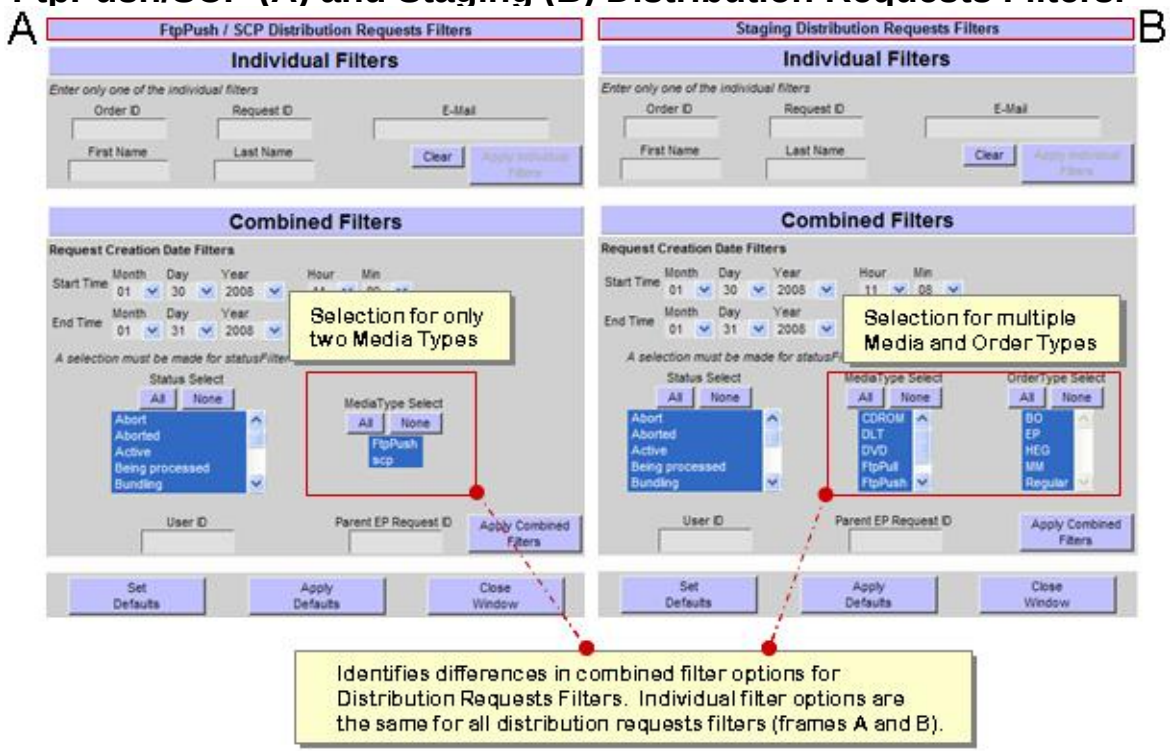
Figure: FtpPush/SCP Requests page (A) and [filter] options (A1) and Staging Requests page (B) and [filter] options (B1)



OM GUI
Request Management (cont.)

- **Request Management – FtpPush/SCP (or Staging) Requests [filter] Page**
  - **Procedure: Filtering FtpPush/SCP (or Staging) Requests (cont.)**
    - To define a combined filter criteria: Under the **Options** section of the FtpPush/SCP (or Staging) Distribution Requests page, click the **Change Filter** button to display the distribution requests filter.

Figure: FtpPush/SCP (A) and Staging (B) Distribution Requests Filters.



OM GUI
Request Management (cont.)

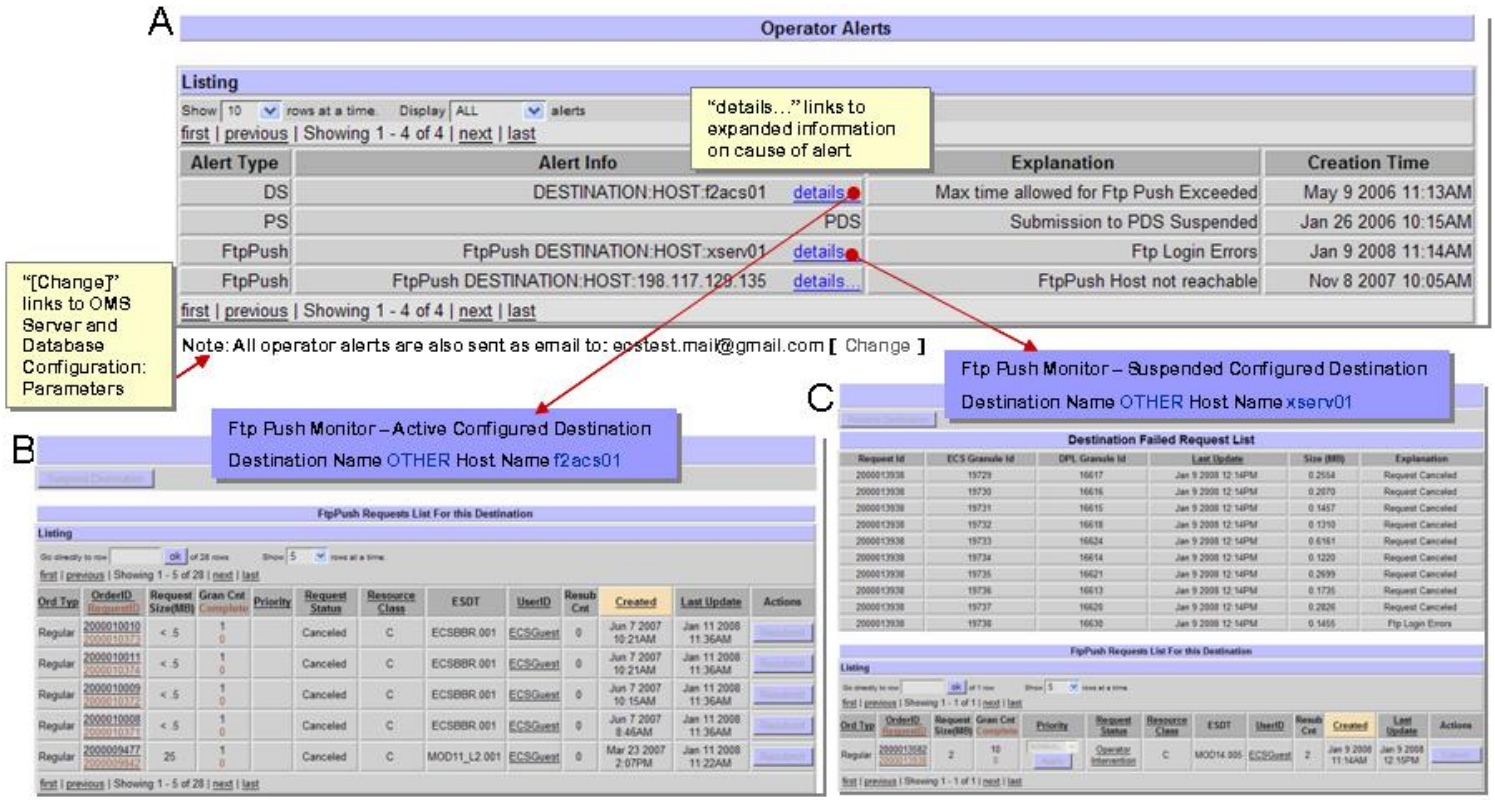
- **Request Management – FtpPush/SCP (or Staging) Requests [filter] Page**
  - **Procedure: Filtering FtpPush/SCP (or Staging) Requests (cont.)**
    - Under the **Combined Filter** section of the filter, select **criteria**:
      - Request Creation Date (Start Time) = "**01 01 2007"**
      - Status Select = **All** button
      - Media Type Select = **All** button
      - Order Type Select (for Staging) = **All** button.
    - Click the **Apply Combined Filters** button, to apply the combined filter criteria and close the **FtpPush/SCP (or Staging) Distribution Requests Filters** window**.** The **FtpPush/SCP (or Staging) Distribution Requests Filters** page displays with the applied combined filter results.
  - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
Request Management (cont.)

- **Request Management – Operator Alerts**
  - **The Operator Alerts page displays informative non-fatal warnings or distribution resources errors and will not cause an Operator intervention.**
  - **Alerts clears automatically once error is corrected.**
  - **Operators (both FC or LC) can view four alert types detected by the Order Manager Server:**
    1 – **FtpPush/SCP Destination Alerts** are alerts for destination problems not sufficient to cause an Operator intervention (i.e., suspended FtpPush/SCP destination).
    2 – **Data Pool File System Alerts** generates warnings regarding malfunctions of the DPL file system (i.e., server down, no free space).
    3 – **Archive Server (Quick Server) Alerts** detects warnings regarding the Quick Server malfunctions which suspends the archive server and queues the alerts display.
    4 – **ECS Server Alerts** (AIM database errors warnings) detects warnings regarding the AIM malfunctions or OMS resources (i.e., server down).
  - **The Alerts page has two display parts:**
    1 – **Show <number> rows at a time** displays limited records (5 to 100) on page.
    2 – **Display <list> alerts** displays alerts type by group.

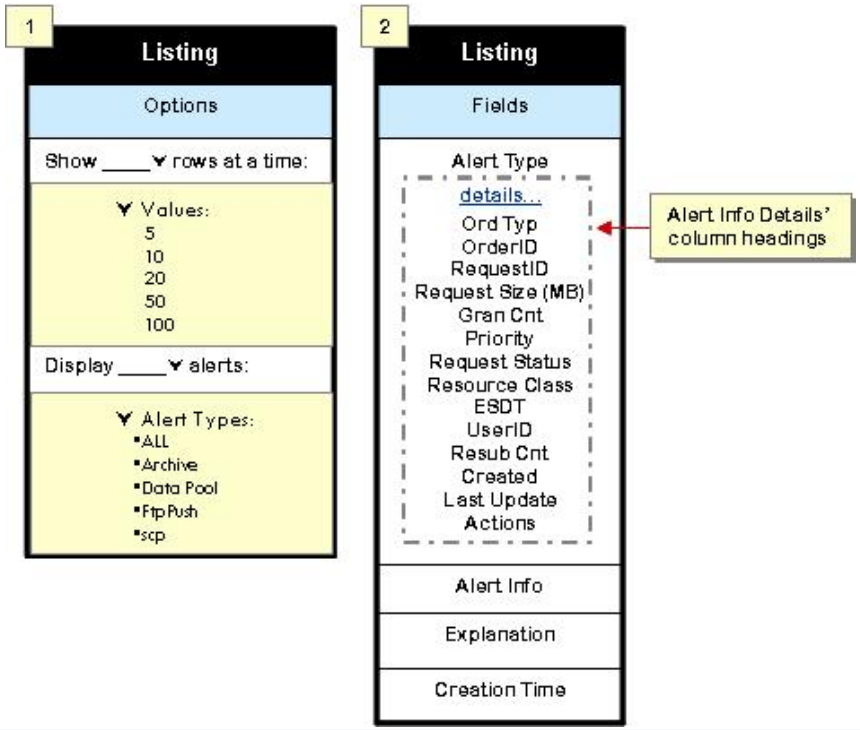
OM GUI
Request Management (cont.)

- **Request Management – Operator Alerts**
  - **Procedure: Handling Operator Alerts**
    - Click **Request Management** menu, then submenu **Operator Alerts** to display its page.
    - **Figure: Operator Alerts Page (A) and Alert Details Page (B-C)**



- **Request Management – Operator Alerts**
  - **Procedure: Handling Operator Alerts (cont.)**
    - To view email parameters configuration (located at left-bottom of page): Click **[Change]** link to display the OMS Server and database Configuration: Email parameters page. After viewing, click the **Previous Page (<)** button to return to the Operator Alerts page.

Figure: Operator Alerts Page Table (Fields and Options)



OM GUI
Request Management (cont.)

- **Request Management – Operator Alerts**
  - **Procedure: Handling Operator Alerts (cont.)**
    - To view all FtpPush requests: Under the **Listing** section header, select **FtpPush** from **Display <list> alerts** list box.
    - View the displayed FtpPush listing.
    - To display extended details affecting the request, select **details…** associated with the request under the **Alert Info** column.
    - Return to the **Order Manager Home** page, on left-pane of OM GUI, click the **HOME** link.

Order Manager GUI
Destination Monitor

❑ OM GUI – DESTINATION MONITOR

- **The full-capability Operator is provided monitoring capability to suspend distributions.**
- **OM Destination Monitor submenu:**
  - Suspended Destinations.

OM GUI
Destination Monitor (cont.)

- **Destination Monitor – Suspended Destinations**
  - **Full-capability Operator views suspended FtpPush/SCP destinations and can perform several kinds of actions, with respect to suspended FtpPush/SCP destinations from the Suspended Destinations page:**
    - Resume suspended destinations.
    - Suspend active destinations.
    - View details of active or suspended destinations.
    - **In addition, the Operator can perform destination details page actions:**
    - Change the priority of a distribution request associated with the FtpPush destination while granules for the request still need to be staged or while granules for the request still need to be pushed.
    - Suspend a request that still needs to be staged or while granules for the request still need to be pushed.
    - Resume a request that was suspended by the OM GUI operator or while the processing of new requests by the OMS is suspended.
    - Cancel a request that is not in a terminal state and while granules for the request still need to be staged or while granules for the request still need to be pushed.
  - **The limited-capability Operator is not allowed to change the priority of, suspend, resume, cancel or resubmit distribution requests.**

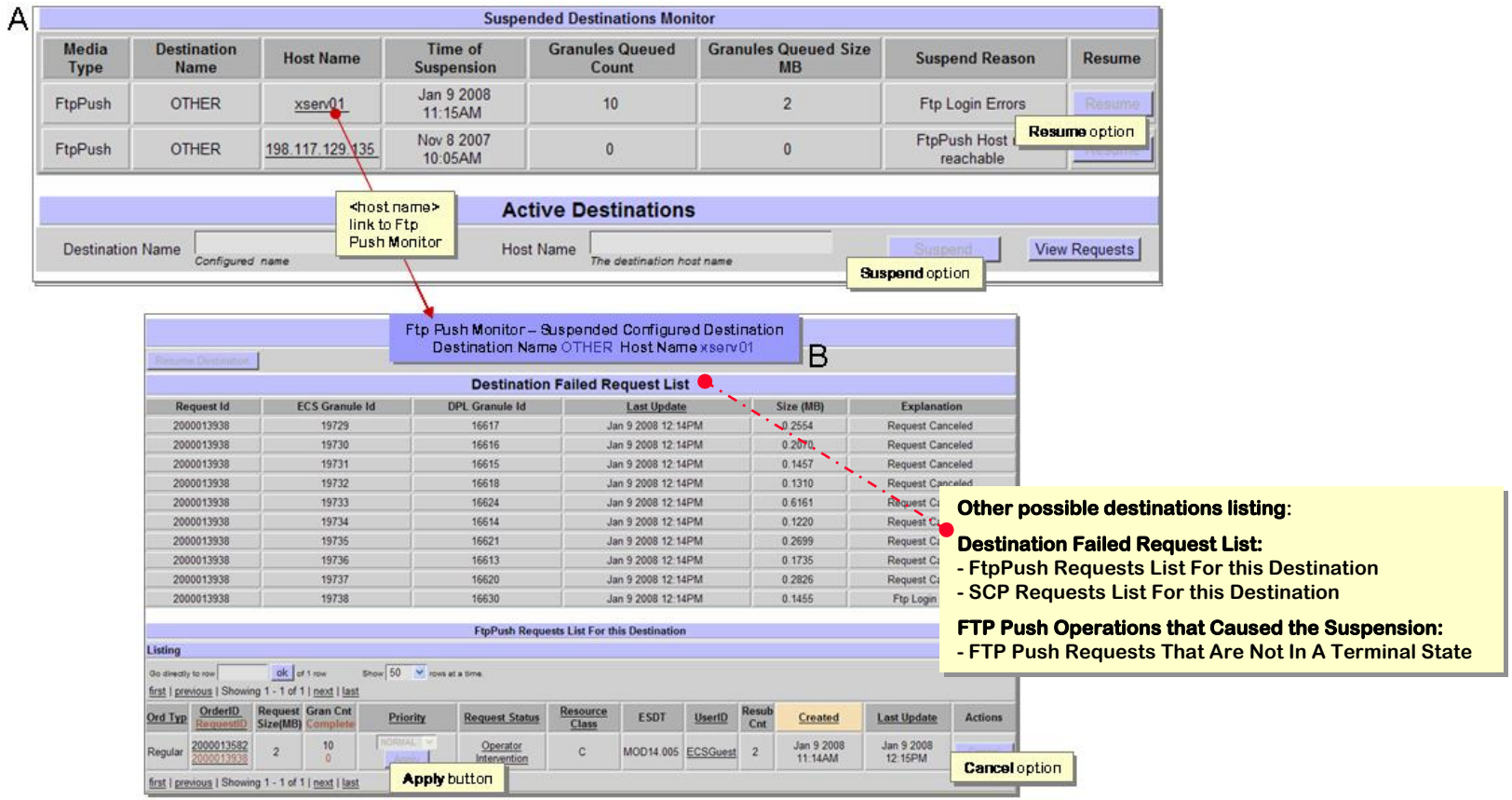
OM GUI
Destination Monitor (cont.)

- **Destination Monitor – Suspended Destinations**
  - **Procedure: Viewing/Responding to Suspended FtpPush Distribution Destinations**
    - Click **Destination Monitor** menu, then click submenu **Suspended Destinations**.
    - To **resume a suspended destination**: Click the **Resume** button under **Resume** column (if applicable).
    - The destination is resumed and the Suspended Destinations page list refreshes.
    - To **suspend an active destination** or **view destination details** of an active or suspended destination: Enter **Destination Name** or **Host Name (FTP Node)** in text fields under Active Destinations section, then click **applicable button** (Suspend or View Requests).
    - **NOTE:** Data in the FtpPush Requests List For this Destination section are not in a "terminal" state.
    - To **view suspended destinations details**: Click the **Host Name** link on the Suspended Destination Monitor.
    - The list of failed destination requests displays in the FtpPush Monitor page.
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
Destination Monitor (cont.)

❑ Destination Monitor – Suspended Destinations

- ❖ **Figure: Suspended Destinations Monitor (A) and Ftp Push Monitor-Suspended Configured Destination (B) Pages**



Order Manager GUI
Archive Data

❑ OM GUI – ARCHIVE DATA

- **The Operator (whether full-capability or limited capability) is provided with the option of viewing the repository for all historical distributed and processed requests on the OM GUI using filters.**
- **Archive Data submenus:**
  - Historical Distribution Requests [filter].
  - Historical Processing Requests [filter].

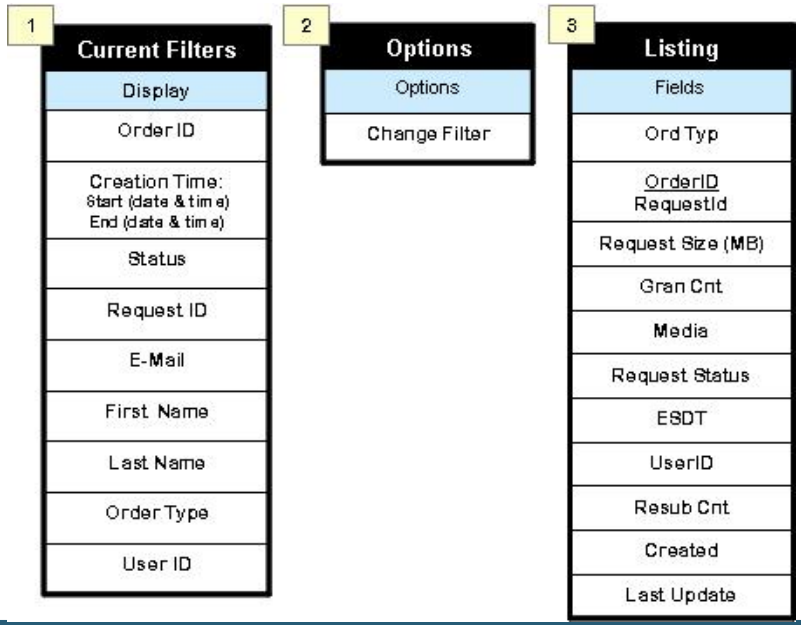
OM GUI
Archive Data (cont.)

- **Archive Data – Historical Distribution Requests Filter**
  - **Provides a tool to view, by filtering the repository of archived distributed requests information on the OM GUI.**
  - **Historical Distribution Requests Page has three working parts:**

    1 – Current Filter (Frame 1) – pre-defined filter criteria.

    2 – Options (Frame 2) – features to change an individual or combined filter.

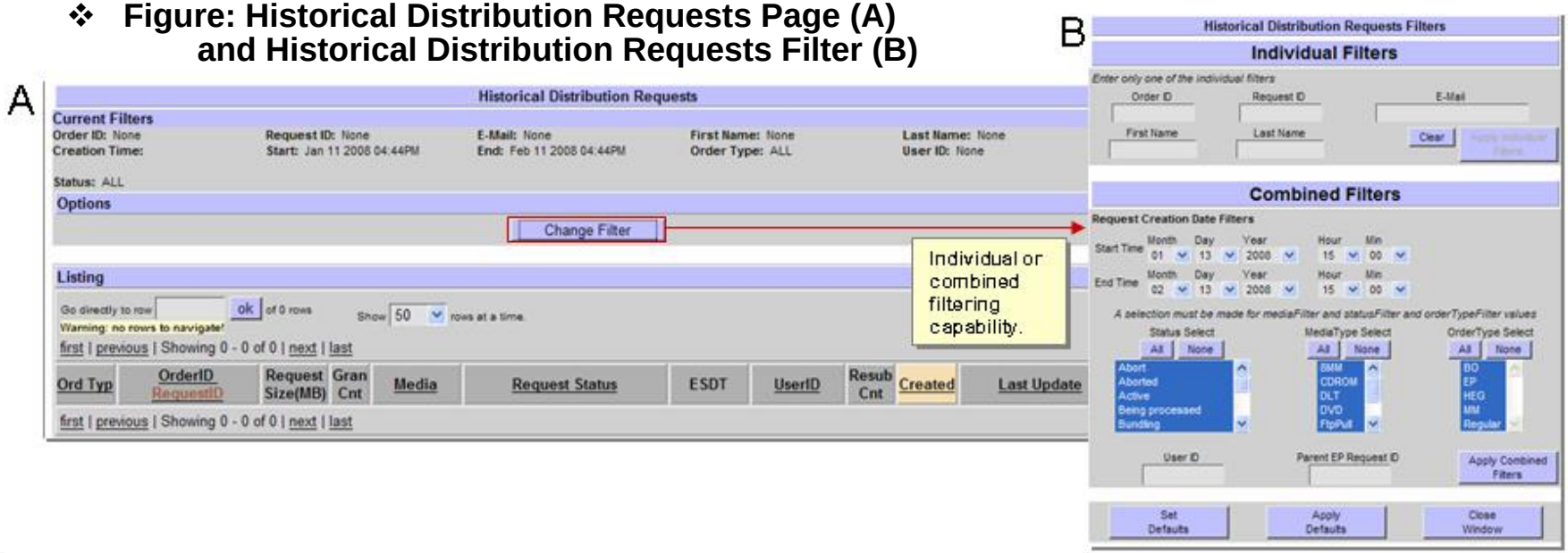
    3 – Listing (Frame 3) – requested distribution filtered output.



OM GUI
Archive Data (cont.)

- **Archive Data – Historical Distribution Requests Filter**
  - **Procedure: Viewing Historical Distribution Requests**
    - Click **Archive Data** menu, then click submenu **Historical Distribution Requests [filter]**.
    - Display data in a specific sort order: Click a specified underscored **column header**.
    - Display more detailed data concerning a particular order or request: Click the **Order<ID>** or **Request <ID>** under the identifying column header.
    - Click the navigation **Previous Page (◄)** button and return to the **Historical Distribution Requests [filter]** page**.**

❖ **Figure: Historical Distribution Requests Page (A) and Historical Distribution Requests Filter (B)**



OM GUI
Archive Data (cont.)

- **Archive Data – Historical Distribution Requests Filter**
  - **Procedure: Viewing Historical Distribution Requests (cont.)**
    - To apply a filter to the **Historical Distribution Requests** listing, perform the following:
      - Click the **Change Filter** button, in the **Options** section of the page.
      - The Historical Distribution Requests Filters window displays.
      - Define **filter criteria**: Enter search data for any one field of the **Individual Filter**, then select **multiple options for one or more fields** of the **Combined Filter**. Click the **Apply Combined Filter** (or Apply Individual Filter) button to apply the filter criteria and view the filtered results.
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

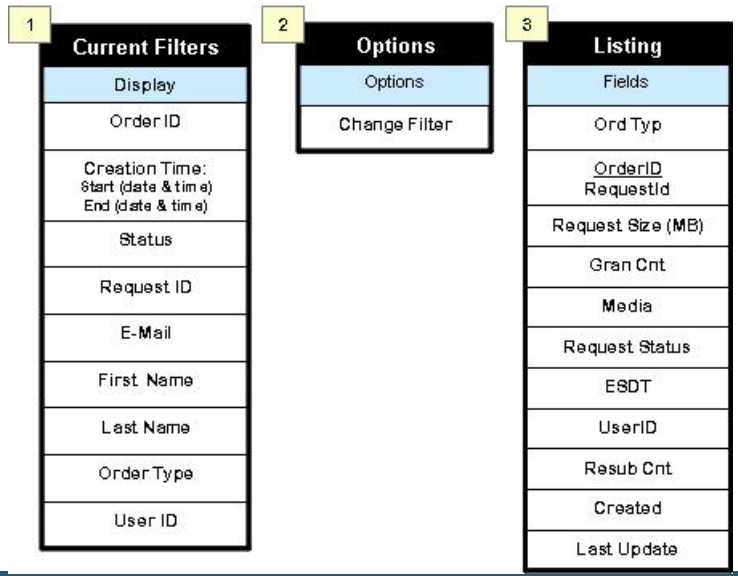
OM GUI
Archive Data (cont.)

- **Archive Data – Historical Processing Requests Filter**
  - **Provides a tool to identify and filter archived external processing requests, by external subsetting processor on the OM GUI. Specific external processing services or HEG requests can be filtered.**
  - **Historical Processing Requests Page has three working parts:**

    1 – Current Filter (Frame 1) – pre-defined filter criteria.

    2 – Options (Frame 2) – features to change an individual or combined filter.

    3 – Listing (Frame 3) – requested distribution filtered output.



OM GUI
Archive Data (cont.)

- **Archive Data – Historical Processing Requests Filter**
  - **Procedure: Viewing Historical Processing Requests**
    - Click **Archive Data** menu, then submenu **Historical Processing Requests [filter]**.
    - Display data in a **specific sort** order: Click a specified underscored **column header**.
    - Display more **detailed data** concerning a particular order or request: Click the **Order<ID>** or **Request <ID>** under the identifying column header.
    - Click the navigation **Previous Page (◄)** button, to return to the **Historical Processing Requests [filter]** page**.**
    - To **apply a filter** to the Historical Processing Requests listing, perform the following:
      - Click the **Change Filter** button, in the **Options** section of the page.
      - The Historical Processing Requests Filters window displays.
      - Define **filter criteria**: Enter search data for any one field of the **Individual Filter**, then select multiple options for one or more fields of the **Combined Filter**. Click **Apply Combined Filter** (or **Apply Individual Filter**) button to apply filter criteria and **view the filtered results**.
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
Archive Data (cont.)

❑ Archive Data – Historical Processing Requests Filter

- ❖ **Figure: Historical Processing Requests Page (A) and Historical Processing Requests Filter (B)**

A

Historical Processing Requests

Current Filters

Order ID: None **Request ID:** None **E-Mail:** None **First Name:** None **Last Name:** None
Creation Time: **Start:** Mar 9 2006 06:32PM **End:** Apr 17 2007 10:56PM **User ID:** None

Options

Change Filter

Individual or combined filtering capability.

Listing

Go directly to row ok of 14 rows Show 20 rows at a time.

first | previous | Showing 1 - 14 of 14 | next | last

OrderID / RequestID	Processor	Request Size(MB)	Gran Cnt	Media	Request Status	ESDT	UserID	Resub Cnt	Created	Last Updat
0300076633 / 0300074856	Subsetter1	< .5	1	FtpPush	Shipped	MOD11A1.004	ECSGuest	0	Sep 21 2006 4:29PM	Sep 21 200 4:32PM
0300076626 / 0300074847	OTHER	6	1	FtpPull	Operator Intervention	MOD11A1.004	ECSGuest	0	Sep 21 2006 4:14PM	Sep 21 200 4:21PM
0300076604 / 0300074823	OTHER	0	1	FtpPull	Aborted	MOD11A1.004	ECSGuest	0	Sep 21 2006 3:16PM	Sep 21 200 3:41PM
0300076598 / 0300074817	OTHER	0	1	FtpPull	Abort	MOD11A1.004	ECSGuest	0	Sep 21 2006 1:27PM	Sep 21 2006 1:27PM
0300076209 / 0300074424	OTHER	< .5	1	FtpPull	Canceled	MOD11A1.004	ECSGuest	0	Sep 14 2006 10:30AM	Sep 14 2006 11:31AM
0300076202 / 0300074417	Subsetter1	0	1	FtpPull	Terminated	MOD11A1.004	ECSGuest	0	Sep 13 2006 2:39PM	Sep 13 2006 2:42PM
0300076200 / 0300074415	Subsetter1	< .5	1	FtpPull	Operator Intervention	MOD11A1.004	ECSGuest	0	Sep 13 2006 2:32PM	Sep 13 2006 2:34PM
0300076195 / 0300074410	Subsetter1	3	1	FtpPush	Operator Intervention	MOD11A1.004	dd7c88526a35ad	0	Sep 13 2006 2:26PM	Sep 13 2006 2:29PM

B

Historical Processing Requests Filters

Individual Filters

Enter only one of the individual filters

Order ID, Request ID, E-Mail, First Name, Last Name, Clear, Apply Individual Filters

Combined Filters

Request Creation Date Filters

Start Time Month 01 Day 11 Year 2006 Hour 16 Min 54
End Time Month 02 Day 11 Year 2006 Hour 16 Min 54

Status Select: All, None — Abort, Aborted, Active, Being processed, Canceled
MediaType Select: All, None — FtpPull, FtpPush
ProcessService Select: All, None — NEG

User ID, Parent EP Request ID, Apply Combined Filters

Set Defaults, Apply Defaults, Close Window

Order Manager GUI
OM Status Pages

❑ OM GU – OM STATUS PAGES

- **The Operator (full or limited capability) is provided summary information on current requests processing states, with the option of invoking queries to view the statuses on the on the OM Status Pages. The status pages parameters are modifiable using the OM Configuration Server/Database submenu options.**
- **[NOTE:** Use the Server/Database Configuration menu to set database and server parameters to "fine tune" the Order Manager Server and the database. These are general parameters that affect the entire system, but no particular media types.]
- **OM Status Pages submenus:**
  - OM Queue Status.
  - HEG Order Status.
  - Staging Status:
    - Media Type.
    - FTP Push Destination.
    - SCP Destination.
    - Pending HEG Granules.
    - DPL File System Status.

OM GUI
OM Status Pages (cont.)

❑ OM Status Pages – OM Queue Status

- **Full-capability Operator monitors and modifies the current status of request queues for all media, including for OMS, e-mail, staging and HEG request queues.**
- **The limited-capability Operator can only monitor activities of the queue status page, but cannot change status of queues.**
- **The OM Queue Status page displays (toggles) in both a graphical Text-only version (for visually impaired) or a plain-formatted Normal version.**
- **Both Operators (FC and LC) can determine the status (up or down) of the Order Manager Server:**
  - **UP** (green): OM Server is currently operation.
  - **DOWN** (red): OM Server is not currently operating.
- [**NOTE:** The status of the OM Server is determined by a program called "Sweeper," which makes an attempt to connect with the OM Server. If a connection cannot be made, it is assumed that the OM Server is down. If Sweeper was not installed correctly, either the error screen is displayed with a Sweeper error message or the Sweeper error message is displayed right on the OM Queue Status page itself. This does not necessarily mean that the OM Server is down.]

OM GUI
OM Status Pages (cont.)

❑ OM Status Pages – OM Queue Status

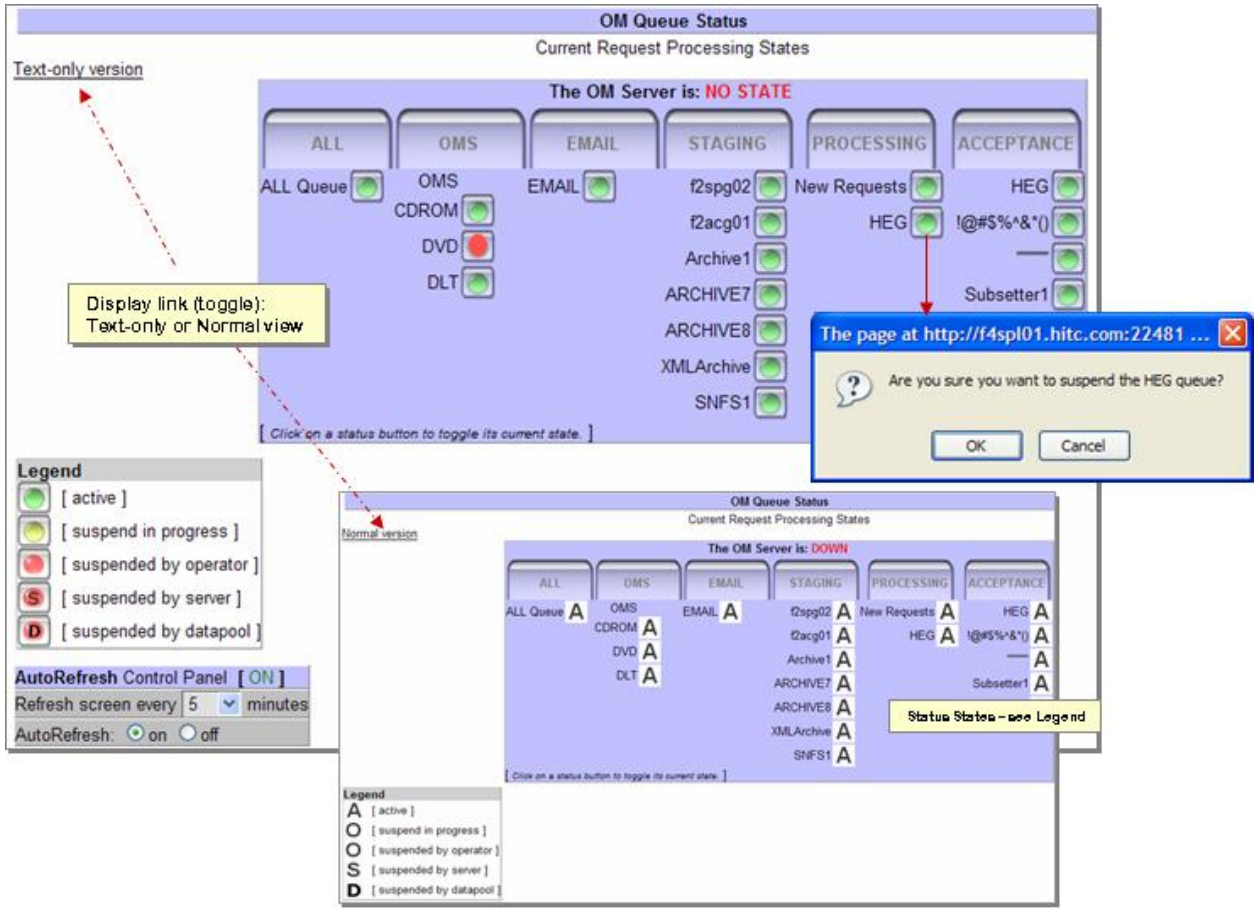
- **Procedure: Viewing/Modifying OM Queue Status**
  - Click **OM Status Pages** menu, then click submenu **OM Queue Status**.
  - Toggle a different version of page: Click the **Text-only version** link in upper-right of page.
  - Observe the information displayed under **Current Request Processing States:**

    - **Green (no letter or A)** – the queue is active (or resumed by either Operator or Server (automatic) intervention).
    - **Red (no letter or O)** – the queue was manually suspended by Operator or if yellow ( ), that the queue is suspend in progress.
    - **Red (S)** – the queue was automatically suspended by OM Server. This is a non-Operator controlled event.
    - **Red (D)** – indicates that the queue has been suspended by Datapool.
  - To toggle the queue state: Click on the **queue status indicator/button**, then click **OK** button to confirm the dialog prompt, “Are you sure you want to <state> the <queue type> queue?.
  - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
OM Status Pages (cont.)

❑ OM Status Pages – OM Queue Status

❖ **Figure: OM Queue Status Page**

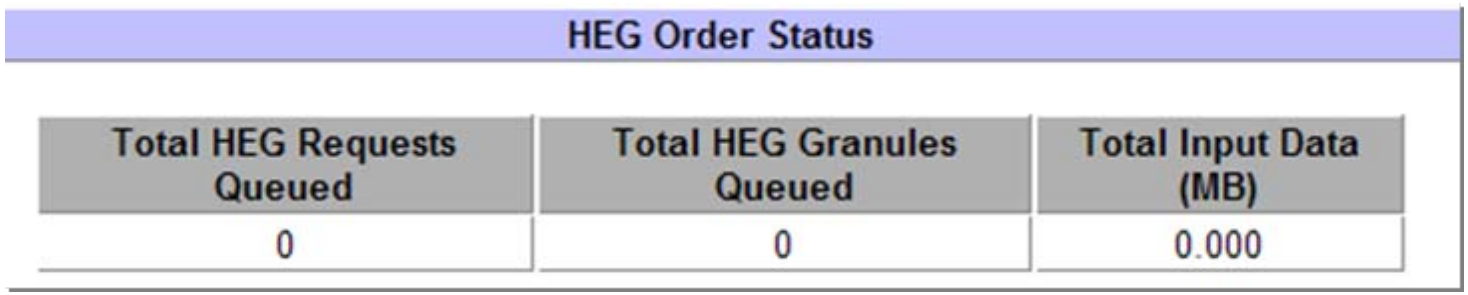


OM GUI
OM Status Pages (cont.)

❑ OM Status Pages – HEG Order Status

- **The HEG Order Status page allows the full-capability Operator to monitor the number of HEG requests and data volume currently in HEG processing. HEG Order Status page is arranged in as follows:**
  - Total HEG Requests Queued.
  - Total HEG Granules Queued.
  - Total Input Data (MB).

- **Procedure: Viewing HEG Order Status**
  - Click **OM Status Pages** menu, then click submenu **HEG Order Status** to display its page.
  - ❖ **Figure: HEG Order Status Page (Read-Only)**


HEG Order Status

Total HEG Requests Queued	Total HEG Granules Queued	Total Input Data (MB)
0	0	0.000

  - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
OM Status Pages (cont.)

- **OM Status Pages – Staging Status**
  - **Full-capability Operator can monitor the number of granules and data volume currently in staging states.**
  - **Staging Status pages displays status in ALL or three ways:**
    1 – Media Type (Frames A).
    2 – FTP Push Destination (Frames B).
    3 – SCP Destination (Frames C).
  - **The granules staging information (Figure 15.9-3 Staging Status Pages and Table (Fields) is arranged in four categories:**
    1 – Granules **Waiting for Staging**.
    2 – Granules **In Staging**.
    3 – Granules that have been **Staged and NOT Shipped**.
    4 – Granules that have been **Staged, Shipped and In DPL**.
  - **The DHWM (Data High Watermark) is the maximum volume of data in staging or already staged but not yet shipped. If the data volume and number of requests is above the DHWM, it is assumed the media devices have plenty of work to keep them busy.**

OM GUI
OM Status Pages (cont.)

❑ OM Status Pages – Staging Status

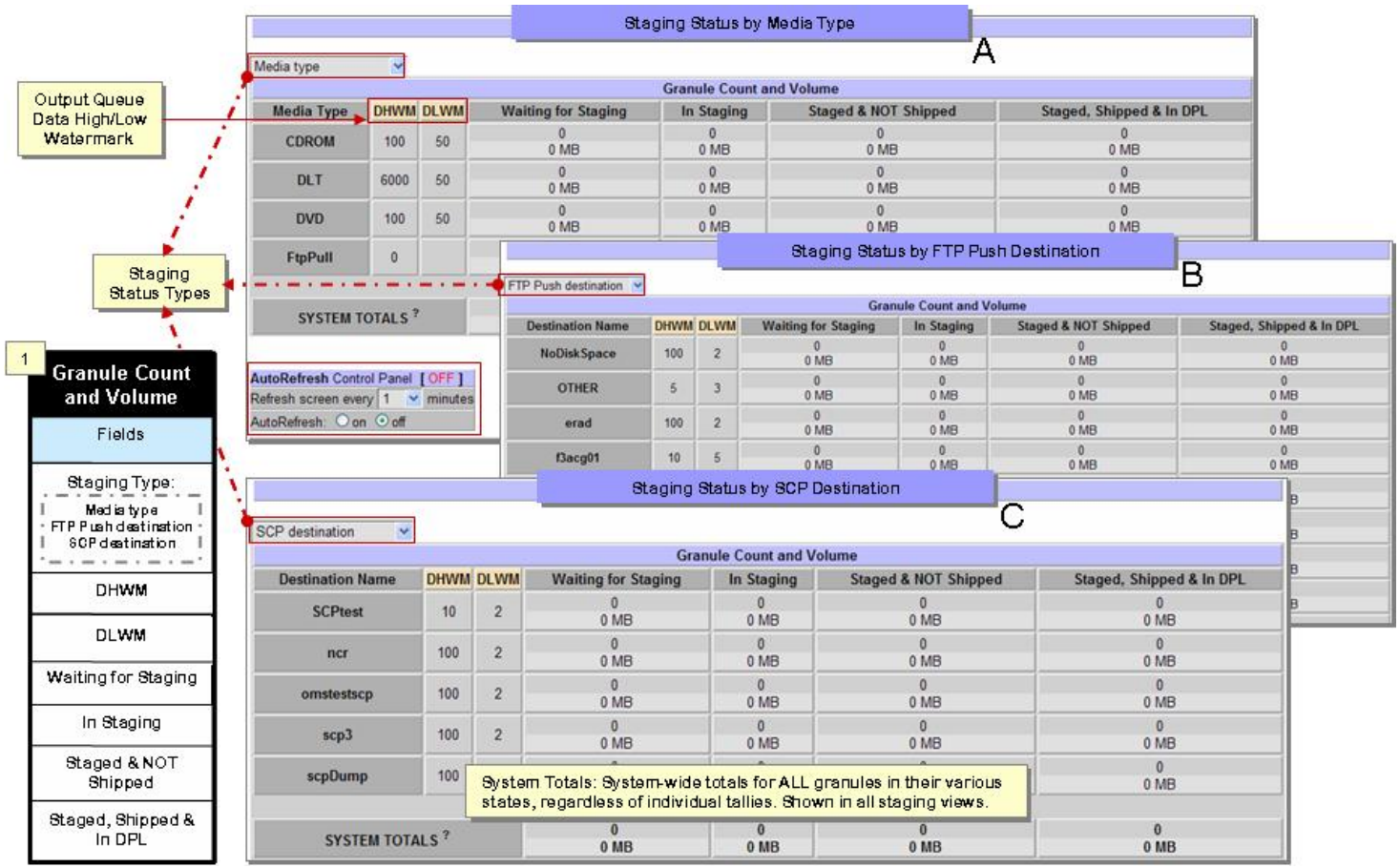
- **The DLWM (Data Low Watermark) is the minimum volume of data that should be in staging or already staged, but not yet shipped. If the data volume is below the DLWM, the media devices may soon become idle.**
- **DLWM is mainly used for dispatching high-priority work. Therefore, the amount of work kept in staging or staged below the HWM, of each output queue, will achieve a good balance among ftp output connections (or in the case of physical media, their various output devices).**

- **Procedure: Viewing Staging Status**
  - Click **OM Status Pages** menu, then click **one of three** staging statuses: **Media Type, FTP Push Destination or SCP Destination**. To view another staging status page, select **staging type** from the list box on the current page.
  - Observe the information displayed under **Granule Count and Volume** section**:**
    - **Staging Status** – page display information columns, except data is generated as media or destination.
    - **The System Totals** – the manually suspended queue by Operator (or if yellow, the suspended queue is in progress).
    - **AutoRefresh** – if **ON**, the **Staging Status by <staging type>** page refreshes automatically, as often as specified in the **Refresh screen every <number> minutes**.
  - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
OM Status Pages (cont.)

❑ OM Status Pages – Staging Status

❖ **Figure: Staging Status Pages and its Table (Fields)**



OM GUI
OM Status Pages (cont.)

❑ OM Status Pages – Pending HEG Granules

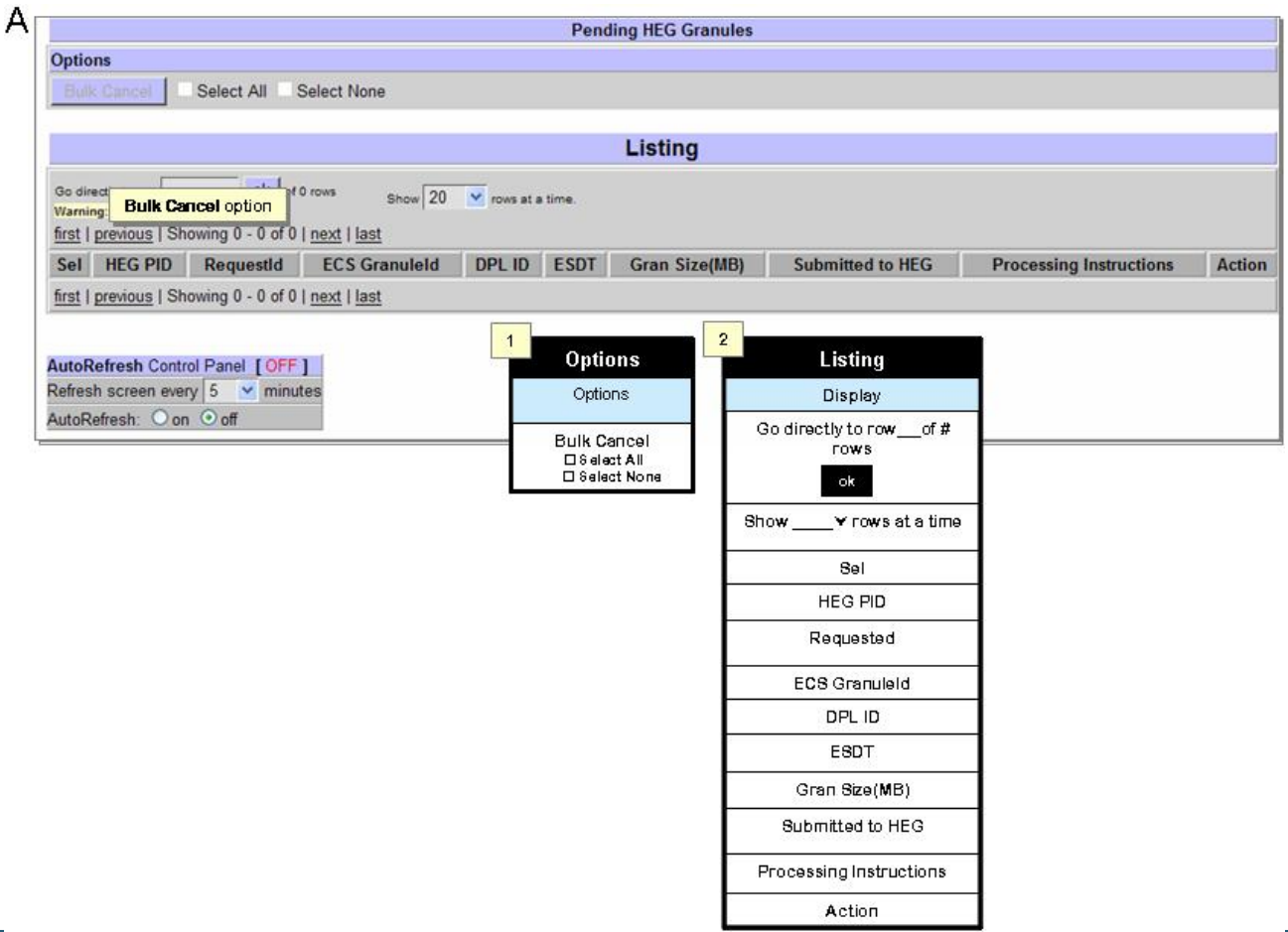
- **The Pending HEG Granules page allows the full or limited capability Operator to monitor pending HEG granules.**

- **Procedure: Viewing Pending HEG Granules**
  - Click **OM Status Pages** menu, then click submenu **Pending HEG Granules** to display its page.
  - Click a specific **Request ID** under Listing, to **view detailed data** concerning that request.
  - To view processing instructions: Click the **View…** link in the column. Data displays in a separate **Processing Instructions** window. View the information in window, then click the **Close Window** button to exit window.
  - To cancel pending HEG granules**:** Under Options, select **Select All** (or **Sel**) check box of the specific pending HEG granules, then click **Bulk Cancel** button to fail granules.
  - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
OM Status Pages (cont.)

❑ OM Status Pages – Pending HEG Granules

❖ **Figure: Pending HEG Granules Page and Table (Options and Display)**



OM GUI
OM Status Pages (cont.)

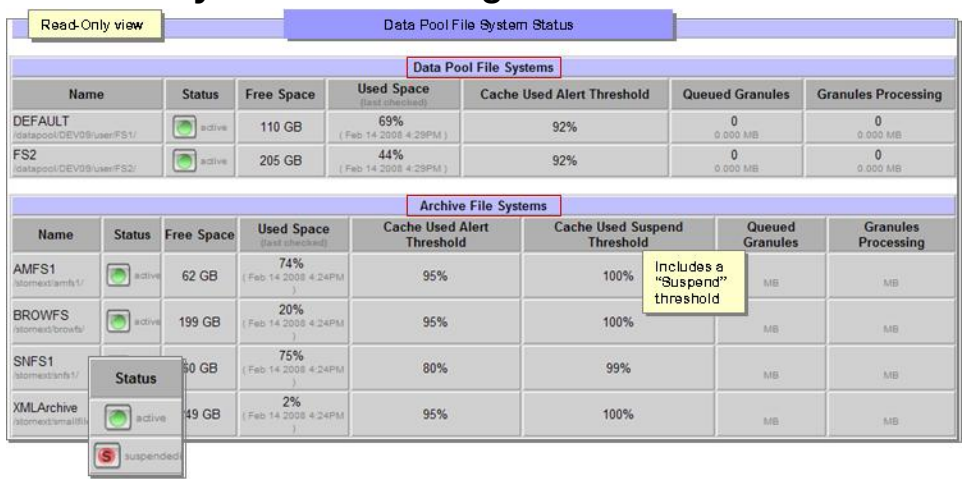
❑ OM Status Pages – DPL File System Status

- **The Operator (full or limited capability) to view-only ongoing activities of the DPL File System Status in two categories:**

  1 – Data Pool File Systems.

  2 – Archive File Systems.

- **Procedure: Viewing Data Pool File System Status**
  - Click **OM Status Pages** menu, then click submenu **DPL File System Status** to display its page.
  - ❖ **Figure: DPL File System Status Page**



  - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

Order Manager GUI
OM Configuration

❑ OM GUI – OM CONFIGURATION

- **The Operator (FC) is allowed to configure aging rules for each priority level – Aging Parameter; to set database and server parameters, which affect the entire system – Server/Database Configuration; and to set and adjust media types attributes – Media Configuration.**
- **The Operator (LC) can view the values assigned to OM Configuration Parameters, but is not allowed to change any parameter values.**
- **Users can perform validity tests against received granules using checksum validation on OMS distributed files.**
- **OM Configuration submenus:**
  - Aging Parameters.
  - Server/Database:
    - [All] [queue], [cleanup], [email], [media], [staging], [partition], [misc.], [HEG].
  - Media
  - Media Creation.
  - ODL Metadata Users
  - Checksum Users
  - External Processing
  - FtpPush/SCP Policy

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Aging Parameters

- **Aging parameters affect how distribution requests are aged over time. The Operator (FC) has the option to configure aging parameters (rules) for each priority level using the Aging Parameters Configuration page.**
- **There are three types of aging parameters, however only two are configurable for each ECS Priority Level (i.e., XPRESS, VHIGH, HIGH, NORMAL or LOW):**

1 – **Age Step** is the aging rate (0-255, including decimal fractions) by which the requests effective priority increases at hourly intervals, but not to exceed the "Maximum Priority". If the parameter is set to zero, waiting requests priority never increases. For example, if the Age Step = 5.5 with an initial priority = 100, waits 10 hours to be pushed, then the request's priority increases by 5.5 hourly until delivery:

Hour 0:priority = 10
Hour 1:priority = 105.5
Hour 2:priority = 111
:
:
:
Hour 10:priority = 155.

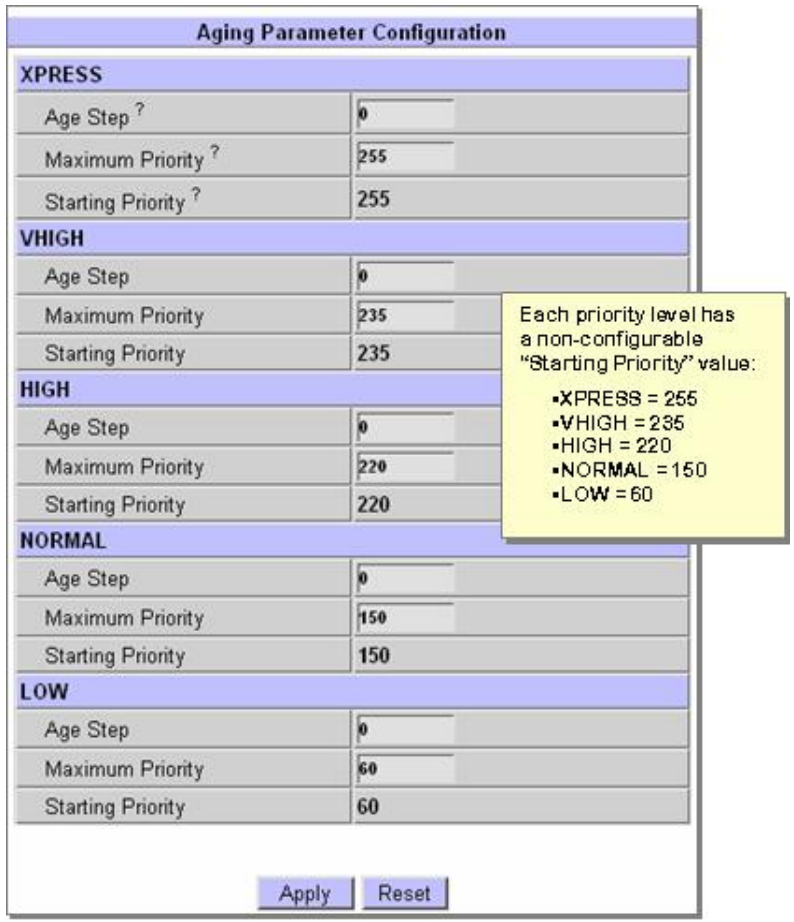
2 – **Maximum Priority** is a request's maximum priority attained in aging process.

3 – **Starting Priority** is a non-configurable arbitrary value representing the priority.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Aging Parameters

- **Procedure: Checking/Modifying Assigned Values of Aging Parameters**
  - Click **OM Configuration** menu, then submenu **Aging Parameters** to display the **Aging Parameters Configuration** page.
  - ❖ **Figure: Aging Parameters Page**
  - To modify (as authorized) aging parameter value(s): type **new value(s)** in relevant parameter(s) text entry box(es), then click **Apply** button (or **Reset** button to clear new value(s) and retain original value(s).
  - Return to the **Order Manager Home** page, on left-pane of OM GUI, click the **HOME** link.



OM GUI
OM Configuration (cont.)

- **OM Configuration – Server/Database (Parameters)**
  - **The OMS Server and Database Configuration page provides the full-capability Operator (limited-capability Operator has limited options) with options to check and modify OMS server or database parameters values. These parameters affect the functionality of the OM server and database.**
  - **Parameters are dynamically loaded from the OMS database into the OM GUI configuration pages. If a configuration parameter is deleted from the database, it is no longer displayed on the OM GUI - parameters displayed on the OM GUI are variable.**
  - **OMS Server and Database Configuration Parameters page has four displays:**
    1 – Parameter.
    2 – Description.
    3 – Units.
    4 – Value.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Server/Database (Parameters)

❖ **Figure: OMS Server and Database Configuration Parameters Types and Names**

Parameters	
Params	Values
queue	Num Of Allowed Email Submissions
queue	Child Process Time Limit
cleanup	Delete Complete Interventions After
cleanup	Delete Complete Actions After
partition	Max Request Granules
partition	Max Subset Granules
partition	Delay Partition
misc.	Max Action Retries
misc.	Idle Sleep Time
misc.	Action Retry Wait
queue	Num of Allowed Validations
misc.	Action Check Interval
misc.	Cleanup Check Interval
misc.	Suspend Check Interval
queue	Max Concurrent Requests Processed
email	Notify User for Partition Request

Parameters (cont)	
Params	Values
staging	Global Staging Status
misc.	Max Failure Archive
email	Global Configured Email
cleanup	Max Orphan Req Age
cleanup	Cleanup Orphan Req Period
email	Forward Dn Email
cleanup	Unsuccess Req Ret Time
HEG	Max Num of Concurrent HEG Process
HEG	Max Num of Concur HEG Proc Per Req
HEG	HEG Process Retry Interval
cleanup	Cleanup Delay Interval
media	Due Date for Media Request
email	Global Configured Operator Actions Email
media	Qc Timeout
media	Production Timeout
media	Media Prep Timeout

Parameters (cont)	
Params	Values
media	Rimage Order Pull Time
misc.	Max Order History Days
media	Luminex Timeout
media	Media Device Check Interval
staging	Staging Action Retries
staging	Staging Action Retry Interval
staging	Fsstat Interval
staging	Fsstat Timeout
staging	Max No Cost Request
staging	Max No Cost Granules
staging	Max Concurrent Checksums
misc.	Enable Performance Logging

OM GUI
OM Configuration (cont.)

- **OM Configuration – Server/Database (Parameters)**
  - **Procedure: Checking/Modifying Assigned Values of OMS Server and Database Parameters**
    - Click **OM Configuration** menu, then submenu [**All]** under the Server/Database header to display the OMS Server and Database Configuration: All parameters page. **NOTE:** This page displays all categories of parameters listed on the under the Server/Database submenu:
      - **[All], [queue parms], [cleanup parms], [email parms], [media parms], [staging parms], [partition parms], [misc. parms], and [HEG parms].**
    - To modified (as authorized) server or database parameter value(s): Type the **new value(s)** in the text entry box(es) for the relevant parameter(s), noting that the new value cannot be 0. Then click the **Apply** button (or the **Reset** button to retain the original value).
    - The OMS Server and Database Configuration page refreshes and displays new value(s).
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
OM Configuration (cont.)

- **OM Configuration – Server/Database (Parameters)**
  - **Figure: OMS Server and Database Configuration [All] parameters Page**

OMS Server and Database Configuration: All parameters

Parameter	Description	Units	Value
Num Of Allowed Email Submissions	Max Number of concurrent submissions to PDS		110
Child Process Time Limit	Amount of time to wait to kill child process before retrying action	seconds	30
Delete Complete Interventions After	Time in hours Completed Interventions are maintained	hours	1
Delete Complete Actions After	Time in hours Completed Actions are maintained	hours	1
Max Request Granules	Maximum number of granules a request may contain		3000
Max Subset Granules	Maximum number of granules a request may contain if it specifies subsetting		3
Delay Partition	Time delay in hours each successive partition is supposed to be displatched	hours	24.0
Max Action Retries	Maximum number of times an action can be retried before the request is FAILED		20
Idle Sleep Time	Length of time between OM Server checks for config parameters	seconds	10
Action Retry Wait	Time in seconds the OmServer waits before attempting to re-dispatch an action	seconds	10
Num Of Allowed Validations	Number of threads the OMServer uses for performing request validations action	threads	100
Action Check Interval	Time in seconds the OmServer waits before checking on actions	seconds	30
Cleanup Check Interval	Time in seconds the OmServer waits before performing cleanup activities	seconds	300
Suspend Check Interval	Time in seconds the OmServer waits before performing checking suspended queues	seconds	30
Max Concurrent Requests Processed	Number of concurrent requests the Om Server will process at one time	integer	100
Notify User For Partition Requests	Whether or not user want to recieve notification when partition happens yes or no	none	Y (Yes)
Global Staging Status	Synergy IV Staging Mode Status	none	A (Active)
Min Moderate Request	min number of tape mounts classified Moderate	number	500
Min Expensive Request	min number of tape mounts classified Expensive	number	10
Max Cheap Requests	Max number of Concurrent requests classified as Cheap that can be promoted t	number	500
Max Moderate Requests	Max number of Concurrent requests classified as Moderate that can be promoted to staging	number	500
Max Expensive Requests	Max number of Concurrent requests classified as Expensive that can be promoted to staging	number	10
Max Failure Archive	Allowable number of failures prior to suspending Archive	number	50
Global Configured Email	Configured email account to send actions to when an alert or intervention is generated		
Max Orphan Req Age	How long to keep an orphaned request in system before it is qualified for removal	hours	1
Cleanup Orphan Req Period	How oftenly to cleanup orphaned requests	hours	1
Forward Dn Email	Configured email account for forwarded DN Email		
Unsuccess Req Ret Time	Amount of time in hours to keep unsuccessfuel requests/orders in MSS/OMS	Hours	1

Obsolete

Max Num Of Concurrent HEG Process	The maximum number of HEG Service requests that mybe processed concurrently	number	5
Max Num Of Concur HEG Proc Per Req	The maximum number of HEG Service requests that may be processed concurrently for a single request.	number	5
HEG Process Retry Interval	Retry interval for automatic retry in case the queue is suspened automatically	seconds	60
Cleanup Delay Interval	The delay time interval for cleanup granules	minutes	10
Due Date For Media Request	Number of hours from the time the request finished staging that request is due for distribution	Hours	8
Global Configured Operator Actions Email	Configured email account to send operator actions to.		
Qc Timeout	The maximum time (minutes) QC is allowed to run before generating an intervention	Minutes	50
Production Timeout	The maximum time (minutes) Production is allowed to run before generating an intervention	Minutes	10
Media Prep Timeout	The maximum time (minutes) Media Preparation is allowed to run before generating an intervention	Minutes	10
Rimage Order Pull Time	Configured maximum time interval in minutes within which an Rimage order is expected to be pulled by	Minutes	60
Max Order History Days	Number of days users can search back for order history	Days	365
Luminex Timeout	maximum minutes which the PM will wait for Luminex during a CD/DVD media order	Minutes	10
Media Device Check Interval	Interval to recheck device on-line status and perform automatic assignment	Seconds	250
Staging Action Retries	No of Retries for Staging Action	number	10
Staging Action Retry Interval	Interval for Retry of Staging Actions	seconds	601
Fsstat Interval	Minimum amount of time allowed between fsstat calls	seconds	6
Fsstat Timeout	The maximum time fsstat is allowed to run before timing out	seconds	122
Max No Cost Requests	Max number of Concurrent requests classified as No Cost (All Granules in DataPool) that can be promo	number	10
Max No Cost Granules	Max number of concurrent datapool granules that can be promoted to staging	number	50
Max Concurrent Checksums	Max number of concurrent checksum operations	number	20
Enable Performance Logging	Turn on performance logging	boolean	N (No)

Apply Reset

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Media

- **The Media Configuration page provides the full-capability Operator the ability to check and modify media parameters.**
- **Media parameters, specific to distribution medium type, affects the limit checking against standard media capacity and the partitioning of requests.**
- **The Media Configuration page has two display parts:**

1 – Parameter Name – label or title of parameter for each media type:

- FtpPull.
- FtpPush.
- CDROM.
- DLT.
- DVD.
- scp.

Distribution media types

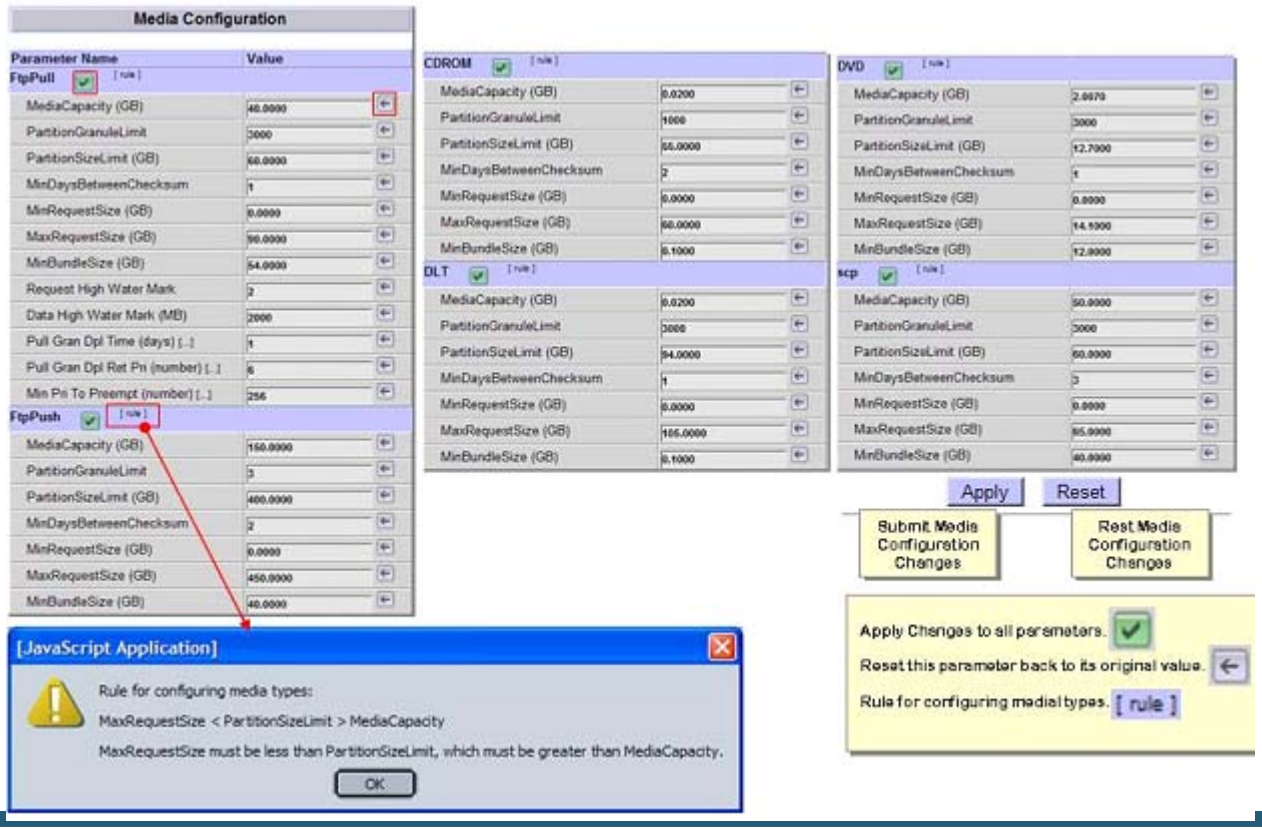
2 – Value – parameter size or limit.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Media

- **Procedure: Checking/Modifying Assigned Values of Media Parameters**
  - Click **OM Configuration** menu, then submenu **Media** to display the **Media Configuration** page.

❖**Figure: Media Configuration Page**



❑ OM Configuration – Media

- **Procedure: Checking/Modifying Assigned Values of Media Parameters (cont.)**
  - **Observe** information on the **Media Configuration** page, specifically the **parameter types**:
    - **MediaCapacity (GB)** – initially set to the maximum capacity (in GB) for the type of media, but should adjusted later to a lower or higher value, depending on data compression usage.
    - **PartitionGranuleLimit** – the maximum number of granules that may be partitioned for the type of medium**.**
    - **PartitionSizeLimit (GB)** – the size (in GB) at which point partitioning of a request can occur**.**
    - **MinDaysBetweenChecksum** – the number days, post-verification of checksum, as defined by Operator, in which the checksum process is verified again.
    - **MinRequestSize (GB)** – the minimum number of gigabytes that can be requested for the type of medium.
    - **MaxRequestSize (GB)** – the maximum total number (GB) that can be requested for that type of medium, regardless of whether or not it can be partitioned.
    - **MinBundleSize (GB)** – the minimum number of gigabytes in a bundle for the type of media.
    - **FtpPull (exclusive):**
      - **Request High Water Mark** – the RHWM is the desired maximum number of requests that may be in the Staging state, or that have completed Staging but are not yet in a terminal state (e.g., Shipped).

❑ OM Configuration – Media

- **Procedure: Checking/Modifying Assigned Values of Media Parameters (cont.)**
  - **Data High Water Mark (MB)** – the DHWM is the maximum volume of data in staging or already staged but not yet shipped. If the data volume and number of requests is above the DHWM, it is assumed the media devices have plenty of work to keep them busy.
  - **Pull Gran Dpl Time (days) […]** – the number of days a granule for an FtpPull request would normally remain in the Data Pool.
  - **Pull Gran Dpl Ret Pri (number) […]** – the normal retention priority for a granule for an FtpPull request.
  - **Min Pri To Preempt (number) […]** – applies to granules put in the Data Pool for an FtpPull request.
- To change the media parameter value(s): Type **new value(s)** in the text entry box(es) for the relevant parameter(s), then click the **Apply** button to submit (or the **Reset** button to retain the original values).
- Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Media Creation

- **The Media Creation Configuration page provides the full-capability Operator with the ability to check and modify media creation parameter values**.
- **Media creation parameters are specific to each kind of distribution medium and affect whether or not media orders are dispatched automatically.**
- **The Media Creation Configuration Page has two columns of information for each type of distribution media:**

  1 – Parameter:
    - DispatchMode (Manual or Automatic Mode).
    - Max number of QC devices per Request (Automatic Mode).
    - Max number of Production devices per Request (Automatic Mode).
    - Default QC Volume Selection (All or None).

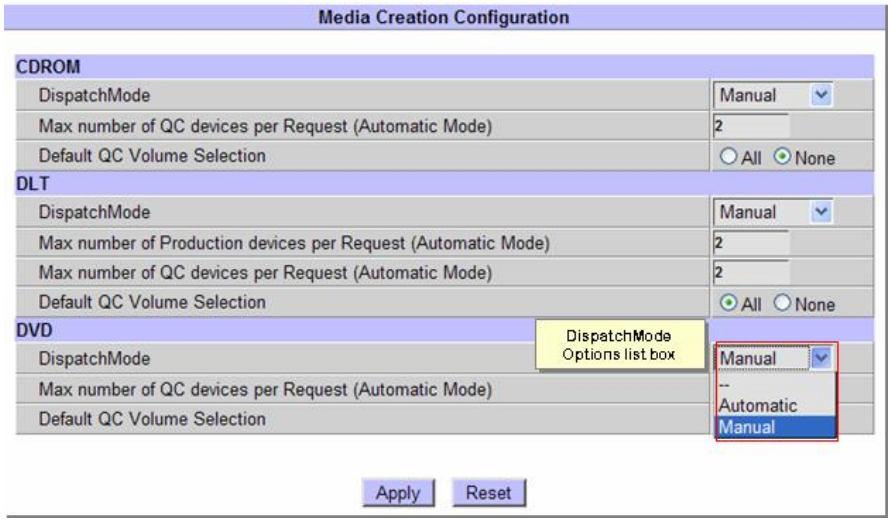
  2 – Current value.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Media Creation

- **Procedure: Checking/Modifying Assigned Values of Media Creation Parameters**
  - Click **OM Configuration** menu, then submenu **Media Creation** to display the **Media Creation Configuration** page.

❖ **Figure: Media Creation Configuration Page**.



  - To modify the media creation parameter value(s): Highlight and delete **current value**, then enter **new value** in textbox. Click **Apply** to change configuration (or **Reset** to keep original value(s).
  - Return to the **Order Manager Home** page: on left-pane of OM GUI click the **HOME** link.

OM GUI
OM Configuration (cont.)

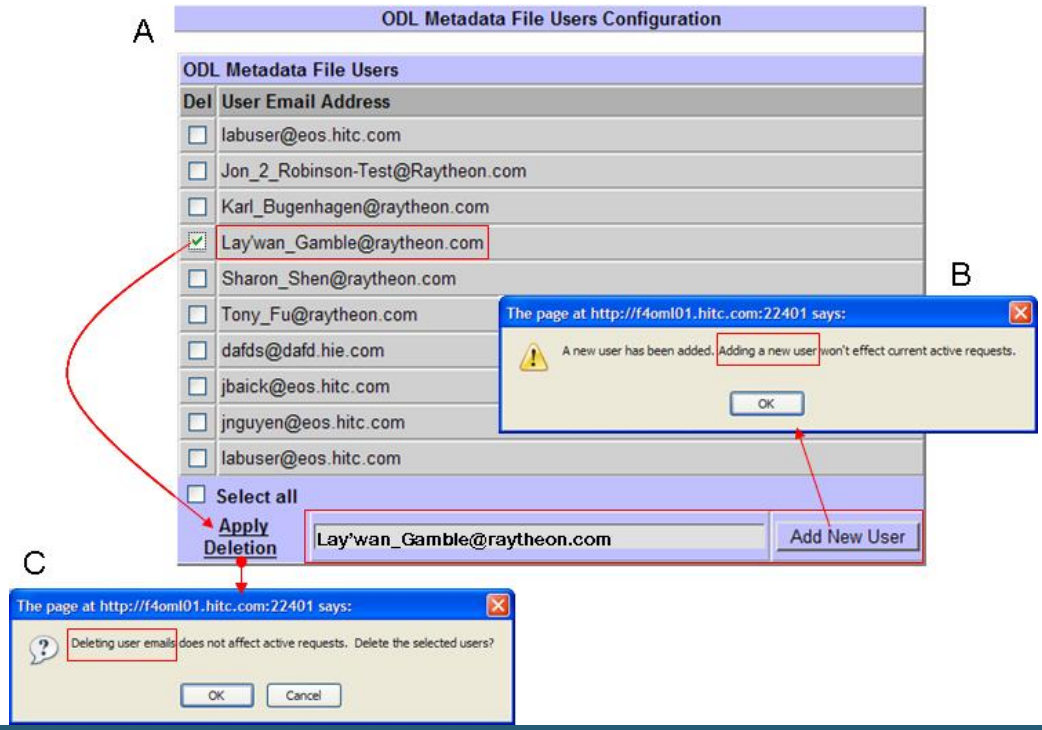
- **OM Configuration – ODL Metadata Users**
  - **The ODL Metadata Files Users Configuration page allows the full-capability Operator to configure a list of Email addresses that signifies users that need to receive metadata in ODL.met file format.**
  - **Limited-capability Operator can only view Metadata File Users configurations.**
  - **The metadata will be distributed whenever the email address contains a Distribution Notice**.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – ODL Metadata Users

- **Procedure: Adding/Deleting User Email Address that will Receive ODL Metadata File**
  - Click **OM Configuration** menu, then submenu **ODL metadata Users** to display the **ODL Metadata File Users Configuration** page.

❖ **Figure: ODL Metadata File Users Configuration Page**.



OM GUI
OM Configuration (cont.)

❑ OM Configuration – ODL Metadata Users

- **Procedure: Adding/Deleting User Email Address that will Receive ODL Metadata File (cont.)**
  - To Add User Email Address(es) to the ODL Metadata File Users Configuration: enter the **new User's email address** in the textbox (at page bottom), the click the **Add New User** button. The prompt indicating "A new user has been added…." appears, click the **OK** button.
  - To Delete User Email Address(es) from the ODL Metadata File Users Configuration: Click one or more **Del** checkboxes (or Select all) next to the User(s) to be deleted, then click the **Apply Deletion** link. The prompt indicating, "…Delete the selected users?" appears, click the **OK** button (or **Cancel** to discard changes)
  - Return to the **Order Manager Home** page: on left-pane of OM GUI click the **HOME** link.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Checksum Users

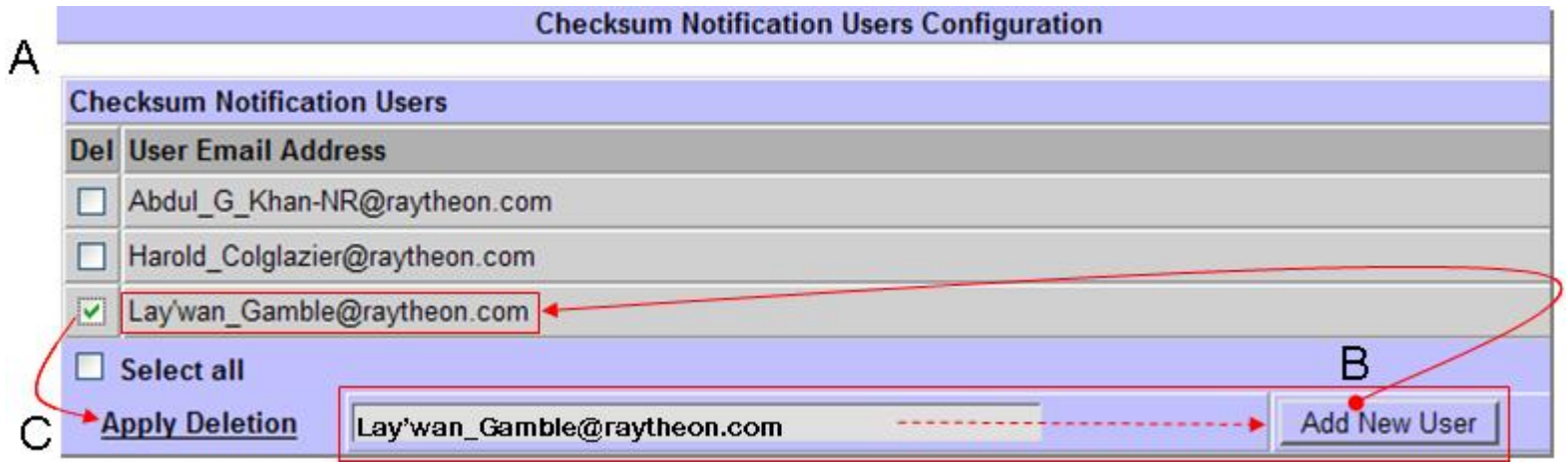
- **A checksum is a computed value associated with a file, which can be used to verify data validity on files distributed by OMS**:
  - Data validity tests can be performed against granule files.
  - LC-Operator can only view Checksum Users configuration.
  - Adding or deleting email addresses is not permitted by Operator.
- **The full-capability Operator is can configure a list of email addresses of users to receive a checksum in the form of a request.**

OM GUI
OM Configuration (cont.)

❑ OM Configuration – Checksum Users

- **Procedure: Adding/Deleting User Email Address that will Receive Checksum File**
  - Click **OM Configuration** menu, then submenu **Checksum Users** to display the **Checksum Notification Users Configuration** page.

❖ **Figure: Checksum Notification Users Configuration Page (Frame A)**.



OM GUI
OM Configuration (cont.)

❑ OM Configuration – Checksum Users

- **Procedure: Adding/Deleting User Email Address that will Receive Checksum File (cont.)**
  - To Add User Email Address(es) to the Checksum Notification Users Configuration: enter the **new User's email address** in the textbox (at page bottom; Frame B), the click the **Add New User** button (Frame B). The new user has been added to the configuration page.
  - To Delete User Email Address(es) from the Checksum Notification Users Configuration: Click one or more **Del** checkboxes (or Select all) next to the User(s) to be deleted, then click the **Apply Deletion** link (Frame C). The User's email address is removed from the configuration page.
  - Return to the **Order Manager Home** page: on left-pane of OM GUI click the **HOME** link.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – External Processing

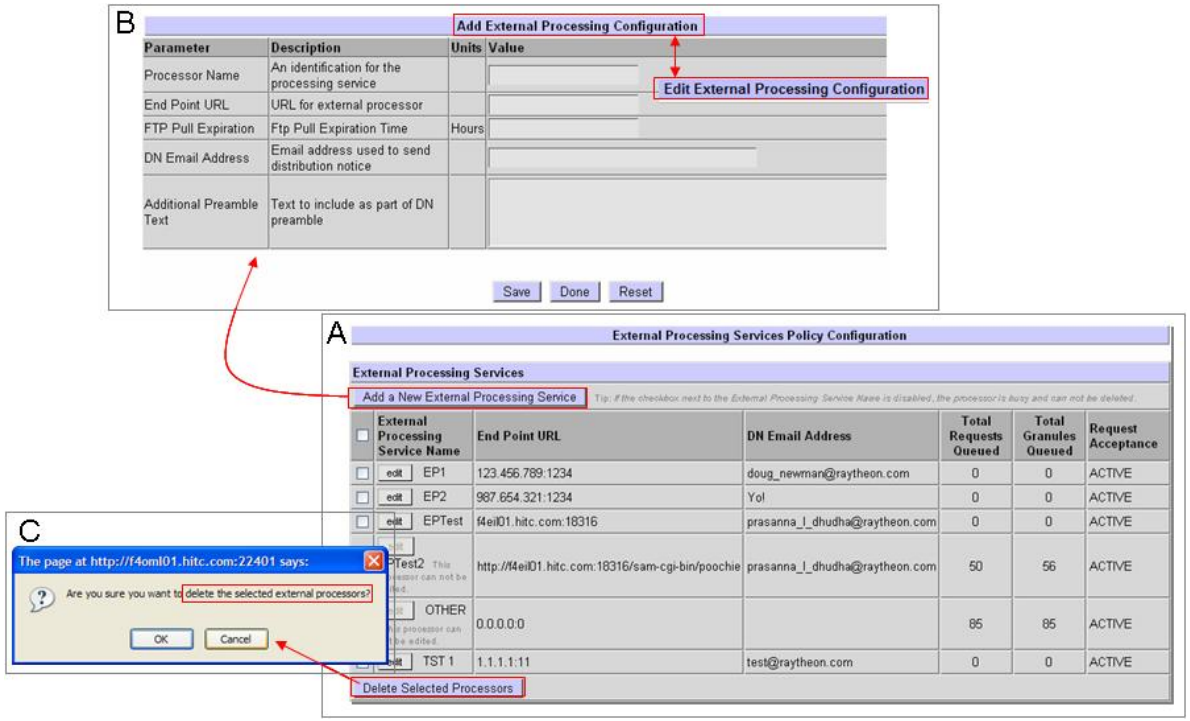
- **The External Processing Configuration page allows the full-capability Operator to define and configure the parameters of an external processing service as follows**:
  - View the external processing services parameters.
  - Delete external processing service with no pending requests.
  - Add new external processing service.
  - Edit existing processing service configuration.
- **The full-capability Operator is limited view-only External Processing Configurations.**
- **External Processing Services parameters descriptive listing:**
  - External Processor Service Name is a unique name for the service.
  - End Point URL is the host URL address configured in the ECS registry.
  - DN Email Address is the DN email address used by the external processing service.
  - Total Requests Queued – is the total number of queued requests.
  - Total Granules Queued – is the total number of queued granules.
  - Request Acceptance – the acceptance of the request.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – External Processing

- **Procedure: Checking/Modifying External Processing Services Configurations**
  - Click **OM Configuration** menu, then submenu **External Processing** to display the **External Processing Services Policy Configuration** page.

❖ **Figure: External Processing Services Policy Configuration Page**.



OM GUI
OM Configuration (cont.)

- **OM Configuration – External Processing**
  - **Procedure: Checking/Modifying External Processing Services Configurations (cont.)**
    - To Add a New External Processing Service: Select the **Add a New External Processing Service** button (or if editing, the **edit** button to the associated processing service), click **Save** to submit the input, then click **Done** to return to the previous page.
    - To Delete an External Processing Service: Select the **checkbox(es)** of the External Processing Service, click the **Delete Selected Processors** button (at bottom of page), then click the **OK** button to confirm deletion (or **Cancel** to discard the action).
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
OM Configuration (cont.)

❑ OM Configuration – FtpPush/SCP Policy

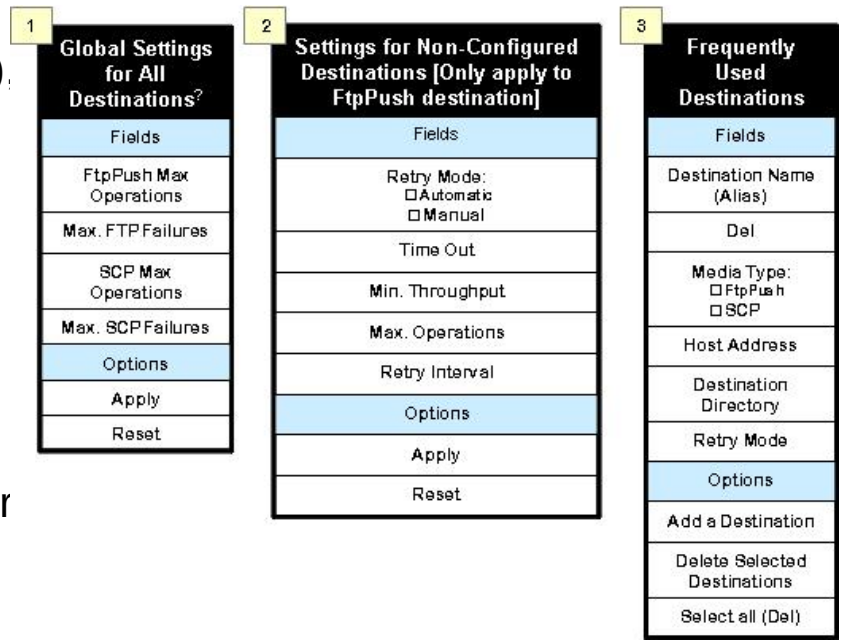
- **Provides the full-capability Operator the ability to define, configure and fine-tune parameter values of FtpPush/SCP destinations.**
- **Configuration parameters on the FtpPush/SCP Policy Configuration Page has three working parts:**

1 – **Global Settings for All Destinations** are parameters that apply to all destinations (both frequently used and non-configured), regardless of their individual settings.

2 – **Non-Configured Destinations** are FtpPush destinations not specifically defined as Frequently Used Destinations, but uses the parameter values in the Settings for Non-Configured Destinations area.

3 – **Frequently Used Destinations** are FtpPush destinations that are non-configur

❖ **Figure: FtpPush/SCP Policy Destination Table (Fields)**



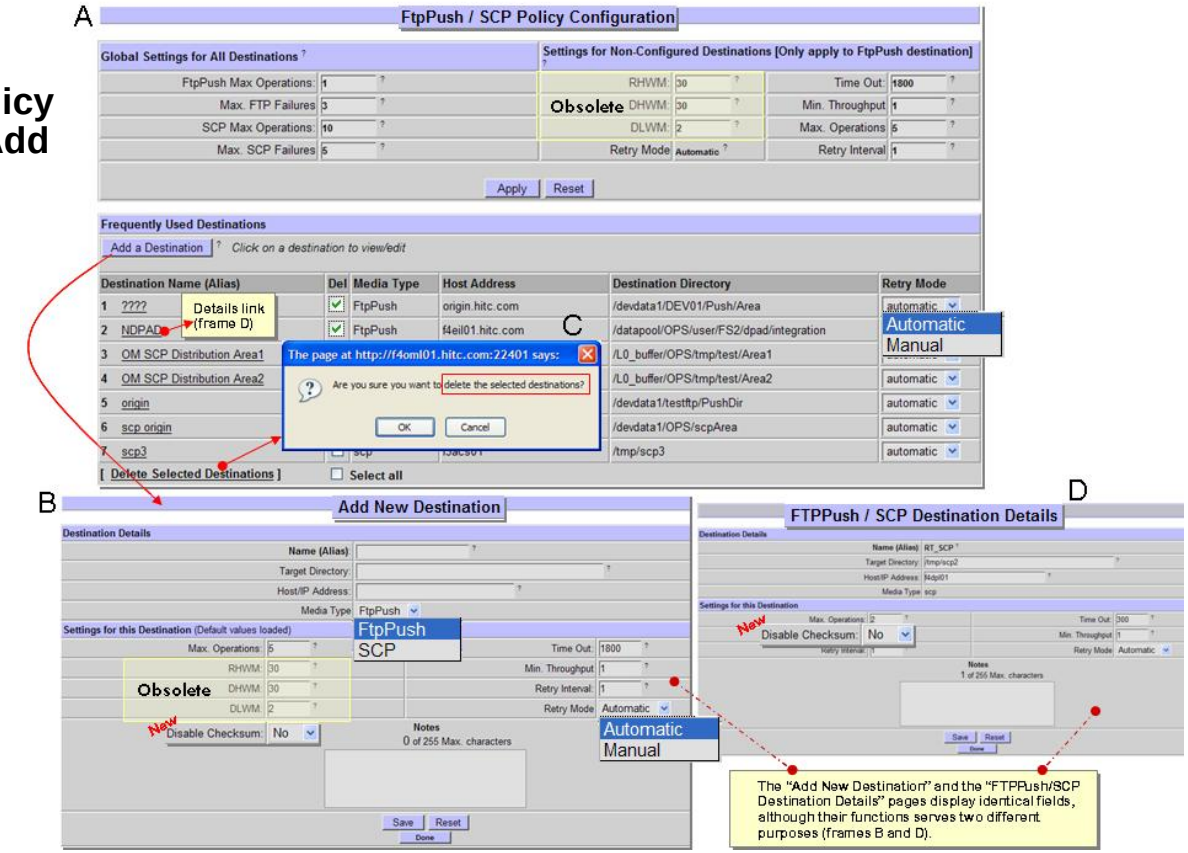
OM GUI
OM Configuration (cont.)

❑ OM Configuration – FtpPush/SCP Policy

▪ Procedure: Viewing/Modifying FtpPush/SCP Policy Configuration

- Click **OM Configuration** menu, then submenu **FtpPush/SCP Policy** to display the **FtpPush/SCP Policy Configuration** page.

❖ **Figure: FtpPush/SCP Policy Configuration Page (A), Add Destination (B), Delete Destination (C) and Destination Details (D)**



❑ OM Configuration – FtpPush/SCP Policy

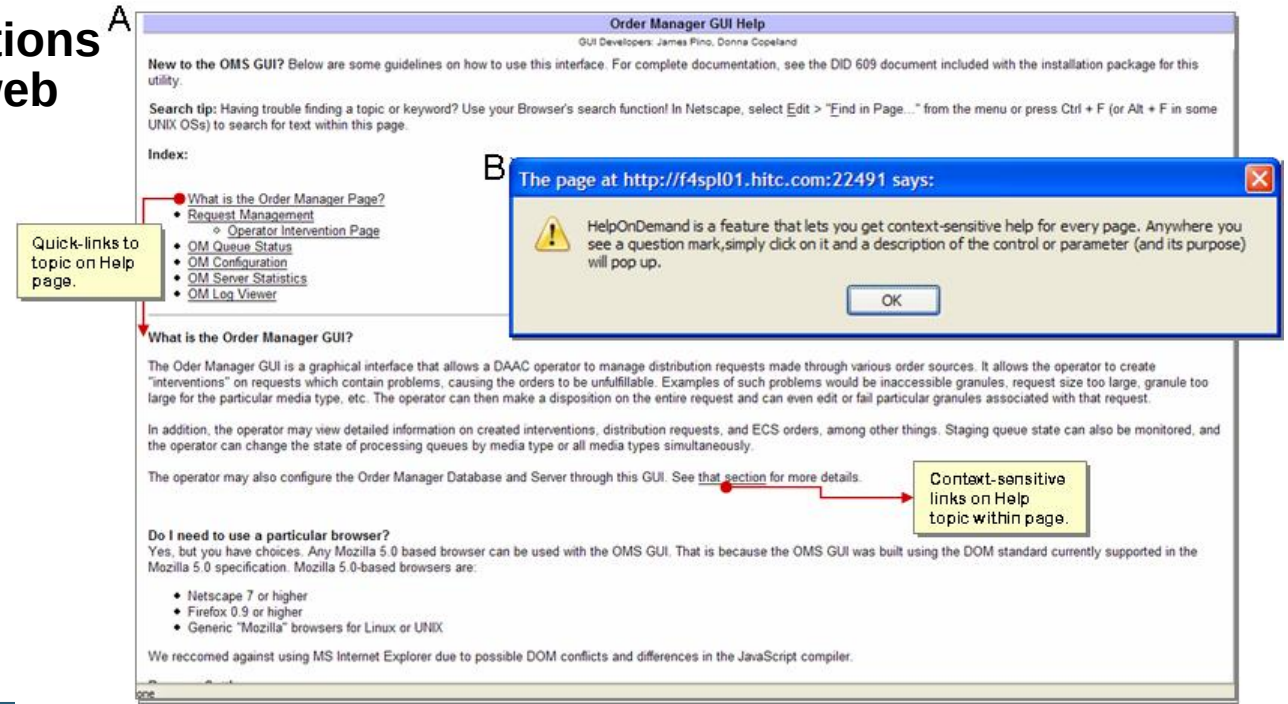
▪ Procedure: Viewing/Modifying FtpPush/SCP Policy Configuration (cont.)

- To view details of a destination, click the underscored **Destination Name (Alias)** and the **FTPPush/SCP Destination Details** page (Figure D) displays. View **detailed information** on page and click the **Done** button to close without saving any possible changes.
- To **Disable Checksum**, select **Yes** from the drop-down list of the checksum listbox.
- To **Delete (remove) destination(s) from the Frequently Used Destinations sections**: Click the **Del** checkbox of corresponding destination(s), then click the **Delete Selected Destinations** link (at bottom of section). At the **confirmation prompt** dialog box (Figure C), click **OK** to confirm deletion(s) and move the destination(s) to the non-configured group (and erase its parameter values).
- To **Add a new destination to the Frequently Used Destinations sections**: Click the **Add New Destination** button to display the **Add New Destination** window (Figure B), enter **values/data** to fields/parameters, then click the **Save** button to submit and to refresh the FTP Push/SCP Policy Configuration page (Figure A).
- Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

Order Manager GUI
Help

❑ OM GUI – HELP

- **There are two Help submenu options:**
  - **About HelpOnDemand…** which features context-sensitive help for each page, especially for non-descriptive controls or parameters.
  - **Help** which features text on various OM GUI related topics.
  - ❖ **Figure: Help (A) and HelpOnDemand (B)**
- **Active search functions using the current web browser is also available on pages within the GUI.**



Order Manager GUI
Physical Media Distribution

❑ OM GUI – PHYSICAL MEDIA DISTRIBUTION (PMD)

- **Allows the Operator to perform media distribution of OM GUI requests.**
  - Error handling is performed the same way as interventions for distribution requests are handled.
- **Physical Media Distribution submenus:**
  - Media Creation Console.
  - Device Configuration.
  - Open Interventions.
  - Printer Configuration.
  - PM Configuration.
  - Reports.
  - ESDT Configuration.

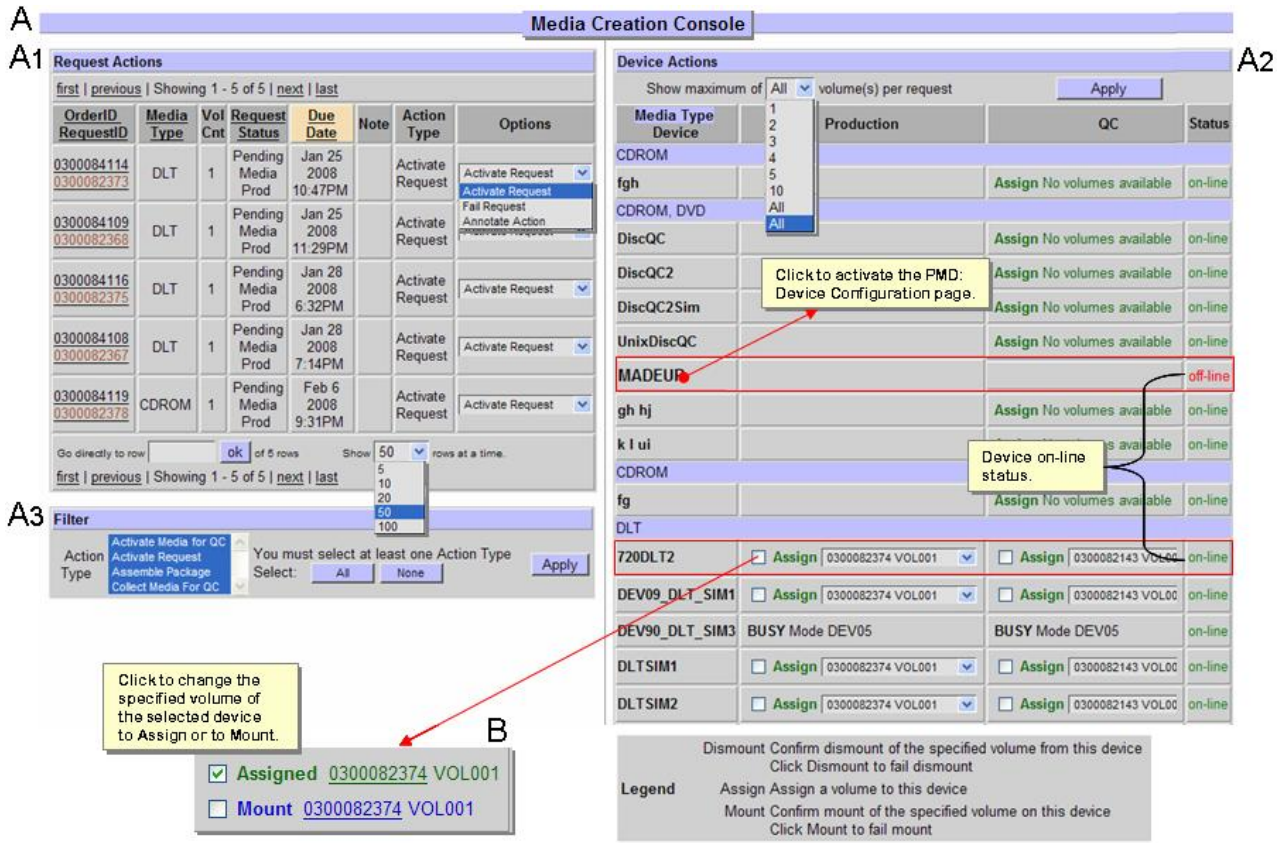
OM GUI
Physical Media Distribution (cont.)

- **PMD – Media Creation Console**
  - **One interactive console handles various types of media creation actions.**
  - **Media Creation Console has three working parts:**

1 – Request Actions:
- OrderID
- Request ID
- Media Type
- Volume Count
- Request Status
- Due Date
- Note
- Action Type
- Options

2 – Device Actions
- Media Type Device
- Production
- QC
- Status

3 – Filter
- Action Type



OM GUI
Physical Media Distribution (cont.)

- **PMD – Media Creation Console**
  - **Manually dispatched PD media must be activated using the console.**
  - **OMS production software (EcOmPdModule) runs twice during media production:**
    1 – for Media Preparation.
    2 – for Media Creation.
  - **Additional activities occur for disk and tape preparation and creation as displayed in table:**

1

Preparation Activities
Disk (CD/DVD)
HDF and metadata file are read
Data is staged
Summary file is created
Summary file is copied
Jewel case insert is created
ISO image file is created
Tape (DLT)
HDF and metadata file are read
Data is staged
Summary file is created
Summary file is copied
Tape label is created

2

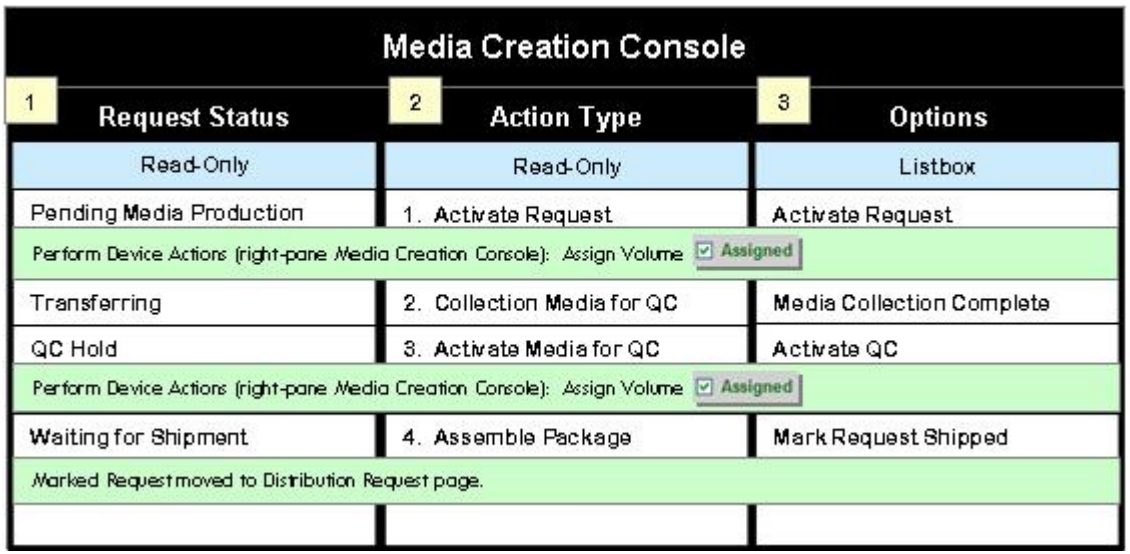
Creation Activities
Disk (CD/DVD)
Merge (label data) file is created
Luminex interface file is created
Luminex writes data to media
Jewel case insert is printed
ISO image and interface file are cleaned up
Staging directory is cleaned up
Tape (DLT)
Data written to tape
Tape label is printed
Staging directory cleaned up

3

QC/Verification Activities
Disk (CD/DVD) and Tape (DLT)
The medium is inserted in a different drive than that used to create the disk or tape (QC of disks is typically done on a QC PC)
The operator starts QC from the OM GUI
QC compares the summary file and the "tar –tvf" (tape) or "ls" (disk) of the medium

OM GUI
Physical Media Distribution (cont.)

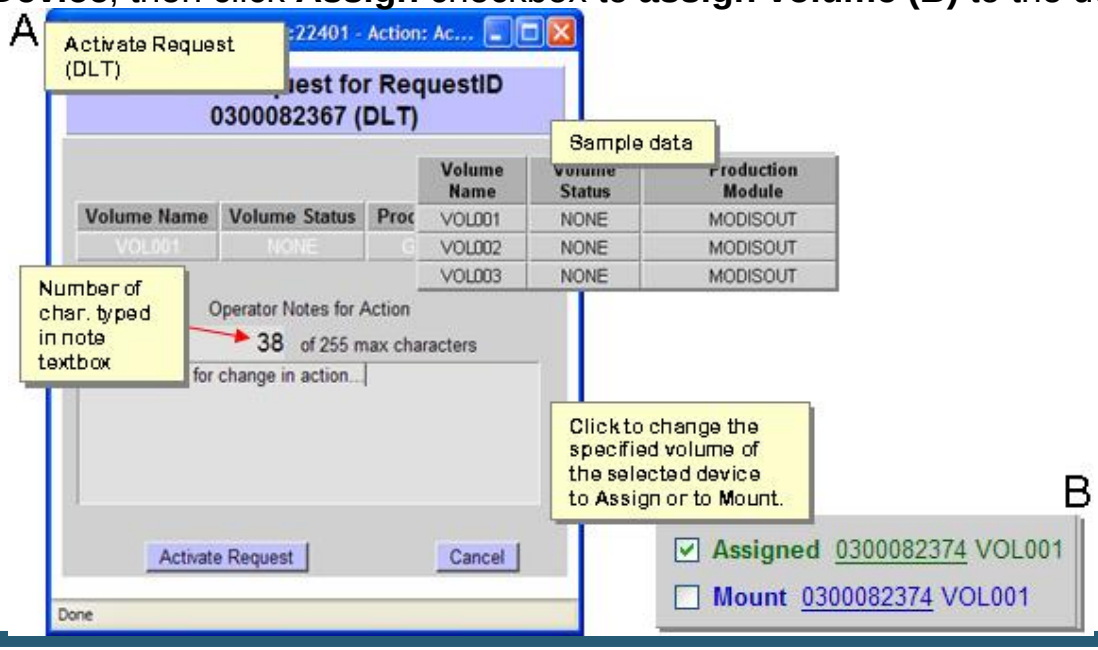
- **PMD – Media Creation Console**
  - **Media creation has four basic actions (process order):**
    1 – Activate Request
    2 – Collection Media for QC
    3 – Activate Media for QC
    4 – Assemble Package
    - **Figure: Media Creation Console basic process display by column: Request Status (1), Action Type (2), Options (3)**



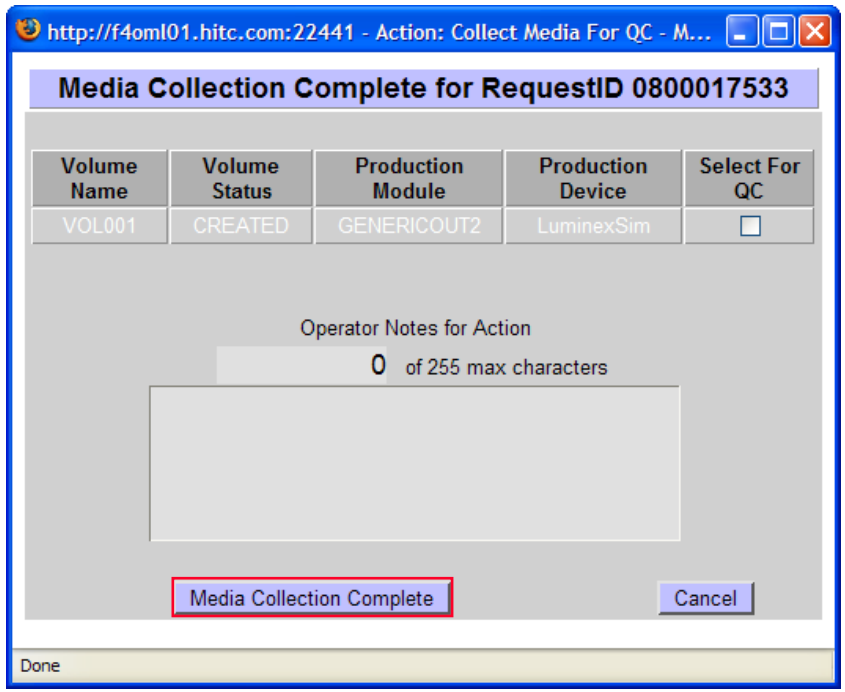
- **NOTE: Additional actions (options) are available, but will not be covered in these procedures.**

OM GUI
Physical Media Distribution (cont.)

- **PMD – Media Creation Console**
  - **Procedure: Using the PMD Media Creation Console**
    - Click **Physical Media Distribution**, then submenu **Media Creation Actions** to display the **Media Creation Console** page. Use the console to process a request using four basic actions:
    - **1st Activate Request:** Using the **Filter** (A3) to filter all options labeled **Activate Request**. (If none listed, change **Option** on a DLT media type). Under **Options**, select **Activate Request** from list. The **Request for RequestID <number> (media_type)** prompts, click **Activate Request** to move request to **right-pane Device Actions** for action. Locate request associated with a **Media Type Device**, then click **Assign** checkbox to **assign volume (B)** to the device.

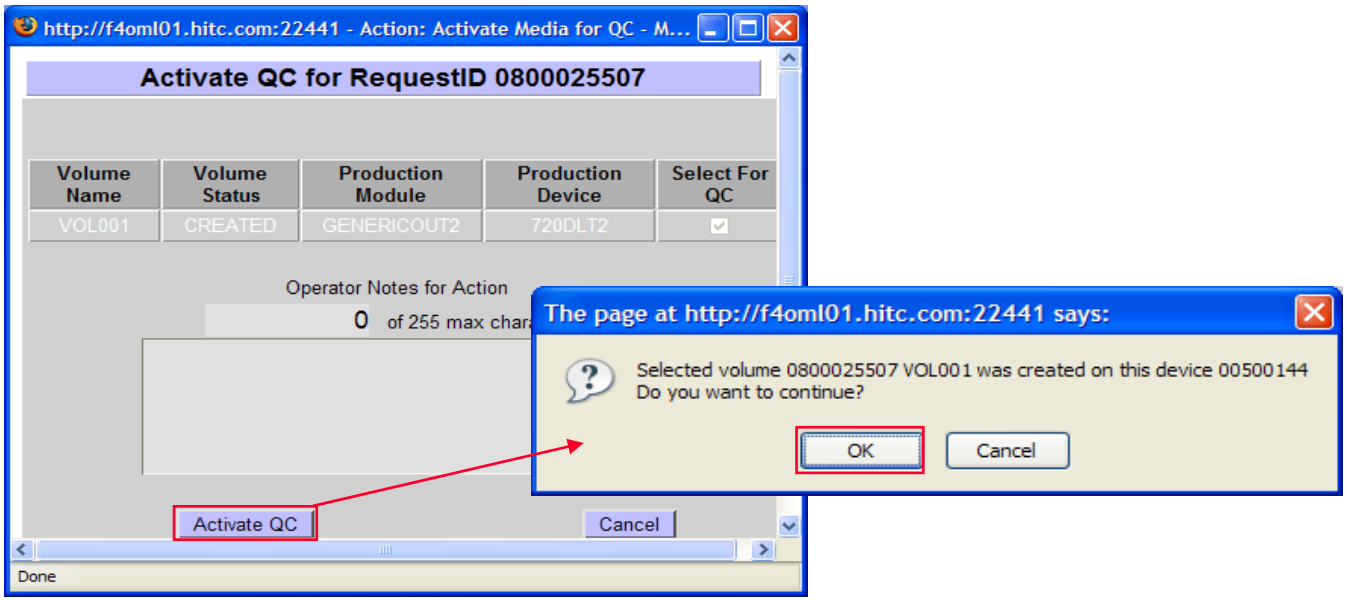


- **PMD – Media Creation Console**
  - **Procedure: Using the PMD Media Creation Console (cont.)**
    - Once action completes processing (request moved back to console left-pane Request Actions) its labeled under **Action Type** as **Collection Media for QC**.
    - **2nd Collection Media for QC:** Under **Options,** select **Media Collection Complete** from list. The **Media Collection for RequestID <number>** dialog box prompts, click **Media Collection Complete** to initiate **Transferring**.



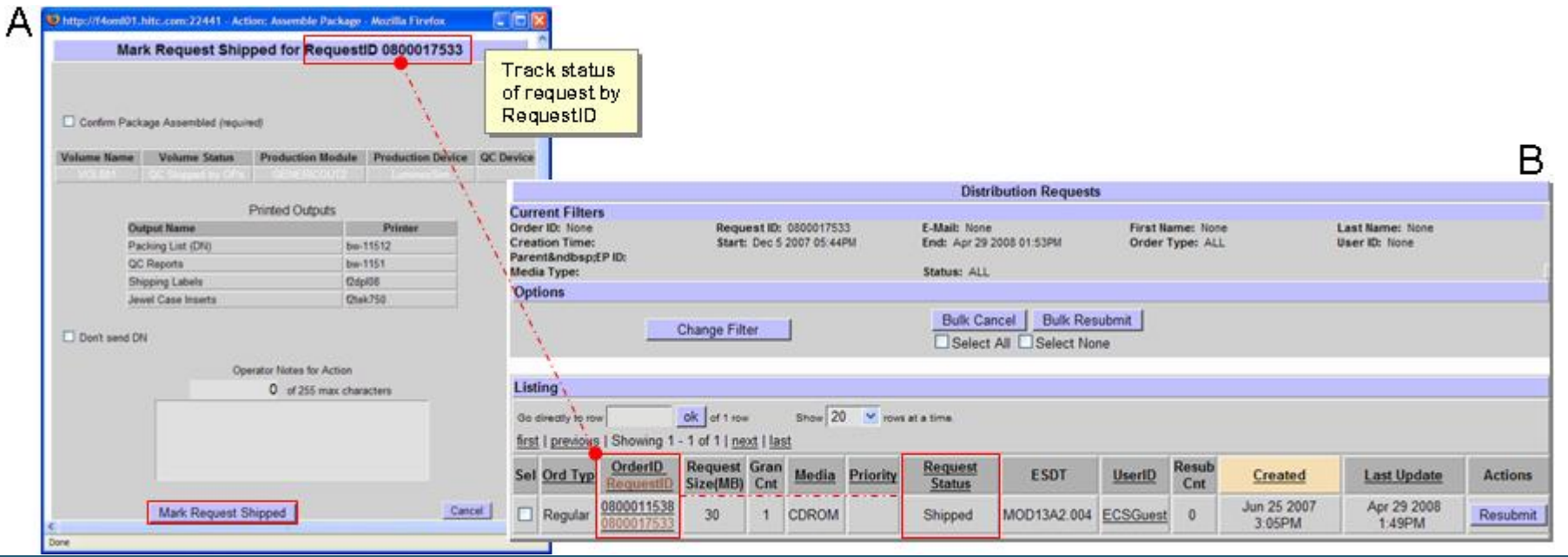
OM GUI
Physical Media Distribution (cont.)

- **PMD – Media Creation Console**
  - **Procedure: Using the PMD Media Creation Console (cont.)**
    - Once processing completes, request (moved back to the left-pane Request Actions) is now labeled under **Action Type** as **Activate Media for QC**.
    - **3rd Activate Media for QC:** Under **Options,** select **Activate QC** from list. The **Activate QC RequestID <number>** dialog box prompts, click **Activate QC** to move request (and create volume) to right-pane Device Actions for action. Click **OK** to confirm action at prompt. Then locate request associated with specified **Media Type Device**, then click **Assign** checkbox to **assign volume** to the device and to initiate **QC Hold**.



OM GUI
Physical Media Distribution (cont.)

- **PMD – Media Creation Console**
  - **Procedure: Using the PMD Media Creation Console (cont.)**
    - Once processing completes, request (moved back to the left-pane Request Actions) is now labeled under **Action Type** as **Assemble Package**.
    - **4th Assemble Package:** Under **Options,** select **Mark Request Shipped** from list. The **Mark Request for Shipped for RequestID <number>** dialog box (A) prompts, click **Mark Request Shipped** to initiate **Waiting for Shipment**. Request status can be monitored/reviewed using the **Distribution Requests** page (B), tracked by the **RequestID <number>**.



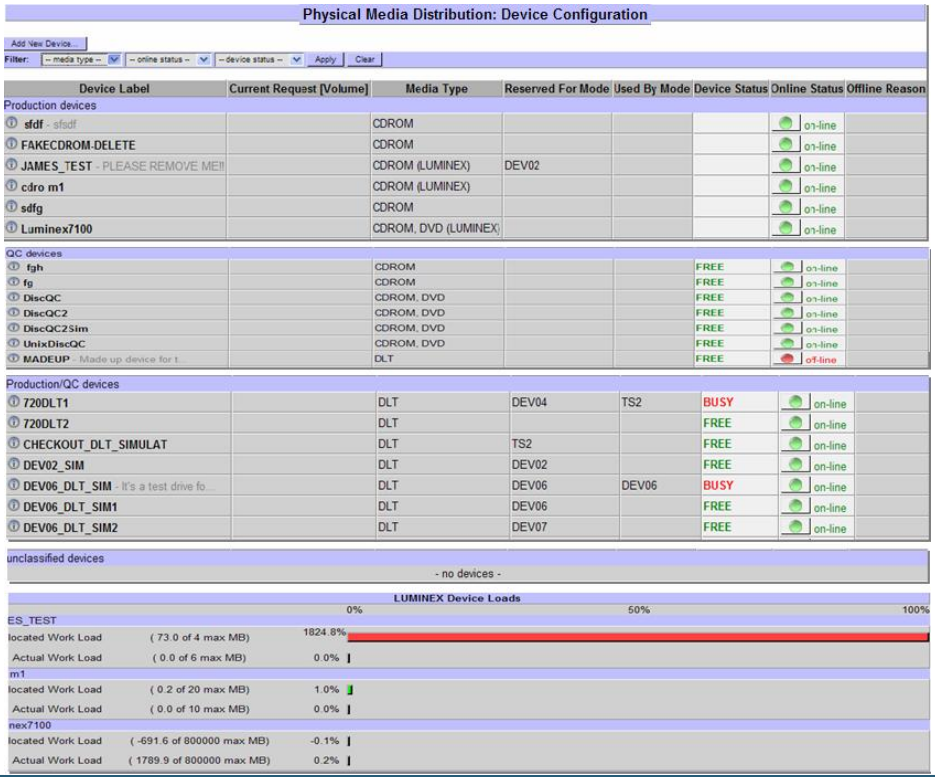
OM GUI
Physical Media Distribution (cont.)

- **PMD – Device Configuration**
  - **Displays the configuration of devices used in the Physical Media Creation Console.**
  - **Provides the Operator with a quick visual indicator of the load for each Luminex device.**
  - **Provides job limit parameter data that indicates the current load and maximum number of jobs percentage based on device's configuration.**
  - **Physical Media Device: Device Configuration page displays information in five sections:**
    1 – Production devices.
    2 – QC devices.
    3 – Production/QC devices.
    4 – Unclassified devices.
    5 – LUMINEX Device Loads:
      - Allocated Work Load
      - Actual Work Load

OM GUI
Physical Media Distribution (cont.)

- **PMD – Device Configuration**
  - **Procedure: Filtering/Modifying PMD Device Configurations**
    - Click **Physical Media Distribution**, then submenu D**evice configuration** to display the **Physical Media Distribution: Device Configuration** page.

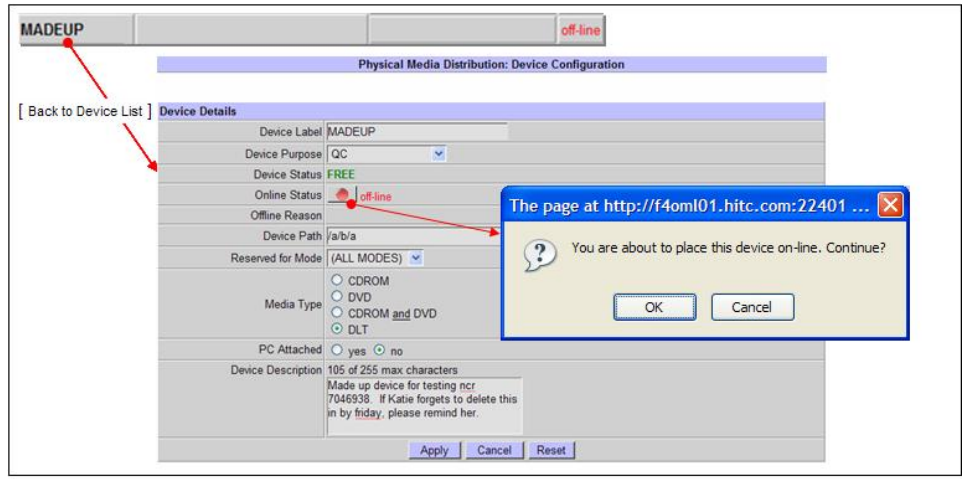
❖ **Figure: PMD: Device Configuration Page**

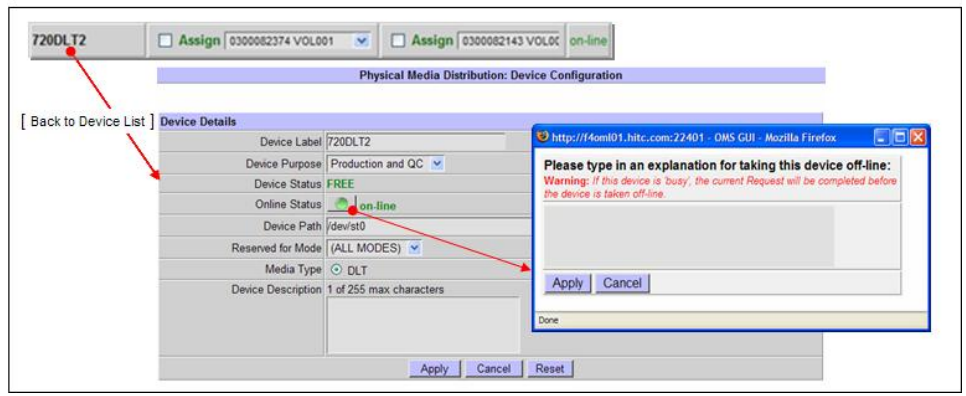


OM GUI
Physical Media Distribution (cont.)

❑ PMD – Device Configuration

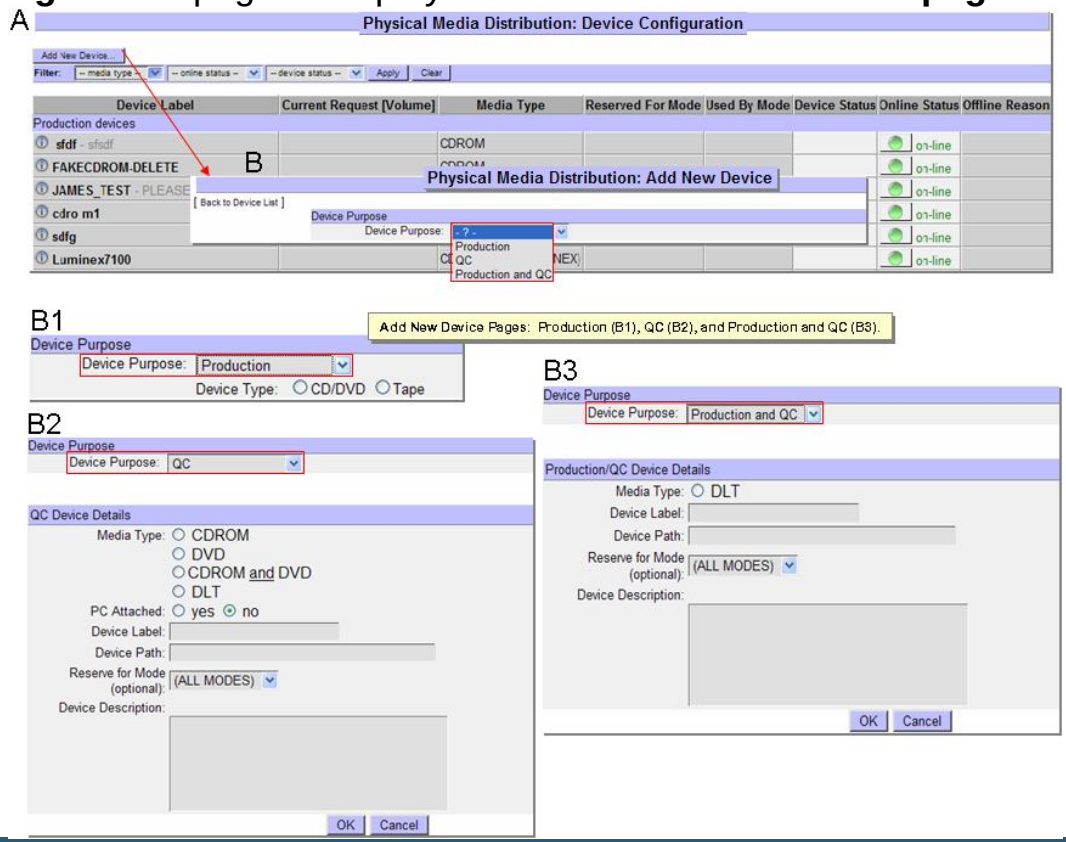
- **Procedure: Filtering/Modifying PMD Device Configurations (cont.)**
  - To **change on-line or off-line status** of a device: Click the **Device Label** to display the **PMD: Device Configuration Details** page.
  - ❖ **Figure: PMD: Device Details Page and Status Prompts**
  - Then locate and click the **Online Status (green** or **red)** status button. At prompt:
    - If **taking device off-line**: Type **justification** in textbox, then click the **Apply** button to change the status and dismiss the prompt.
    - If **placing device on-line**: Click **OK** to continue and dismiss the prompt.
  - Click **Apply** button, at page-bottom to return to the **PMD: Device Configuration** page.
  - Click **Apply** button, at page-bottom to return to the **PMD: Device Configuration** page.





OM GUI
Physical Media Distribution (cont.)

- **PMD – Device Configuration**
  - **Procedure: Filtering/Modifying PMD Device Configurations (cont.)**
    - To add a new device: Click the **Add New Device…** button, at left-top of **PMD: Device Configuration** page to display the **PMD: Add New Device page**:



OM GUI
Physical Media Distribution (cont.)

- **PMD – Device Configuration**
  - **Procedure: Filtering/Modifying PMD Device Configurations (cont.)**
    - Click the **Device Purpose** list box to display its options. There are three device purpose types:
      1 – **Production.**
      2 – **QC.**
      3 – **Production and QC.**
    - Click **desired Device Purpose** from the list box and **complete its options and input fields**. Then click **OK**, to add the new device.
    - Return to the **Order Manager Home** page, on left-pane of OM GUI click the **HOME** link.

OM GUI
Physical Media Distribution (cont.)

- **PMD – Open Intervention**
  - **Operator can view and respond to several Open Physical Media (PM) Interventions:**
    - Change any/all volume status (pass or fail)
    - Fail or change any/all granules in a volume
    - Restart media creation
    - Continue media creation with selected volumes.
  - **The Open PM Interventions page has three working parts:**

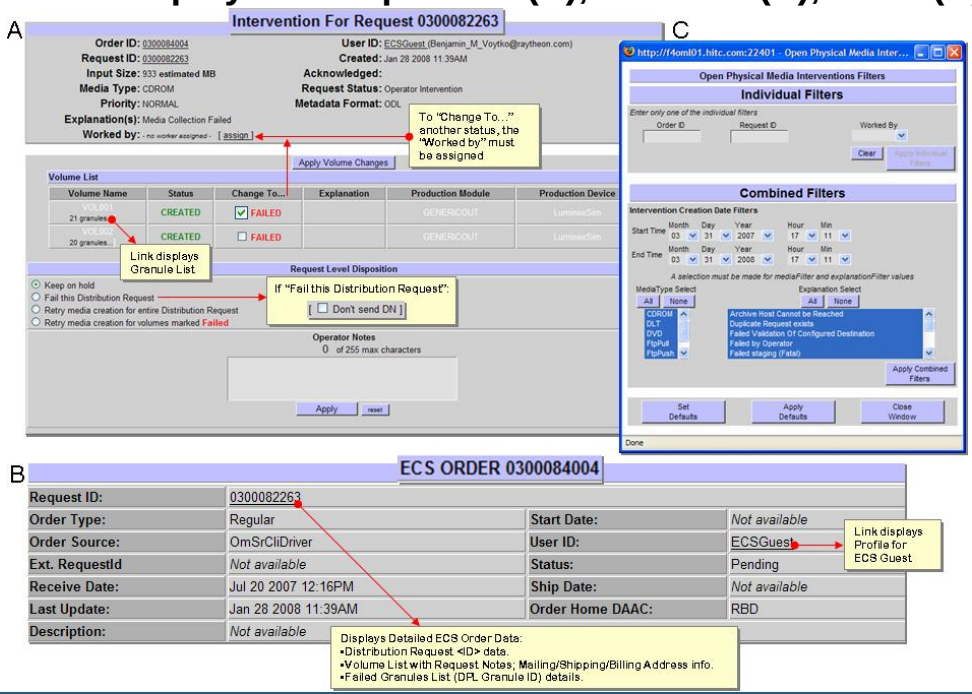
    1 – Current Filters – pre-defined filter criteria.

    2 – Options – features to change an individual or combined filter and to bulk fail or bulk submit requests.

    3 – Listing – captures requested distribution of filtered output.

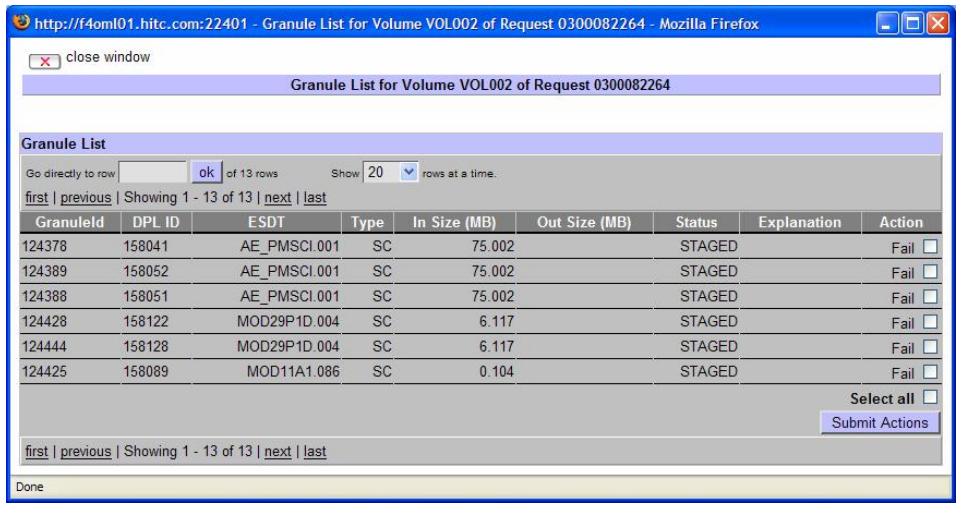
OM GUI
Physical Media Distribution (cont.)

- **PMD – Open Intervention**
  - **Procedure: Responding to Open PM Interventions**
    - Click **Physical Media Distribution** menu, then submenu **Open Interventions** to display the **Open Physical Media Interventions** page.
    - To display details pages for Order ID or Request ID: Under the **Listing** section, click on the **<u>underscored</u> <ID>** to display its detailed page:
      - **Figure: Detail displays of Request ID (A), Order ID (B), Filter (C)**



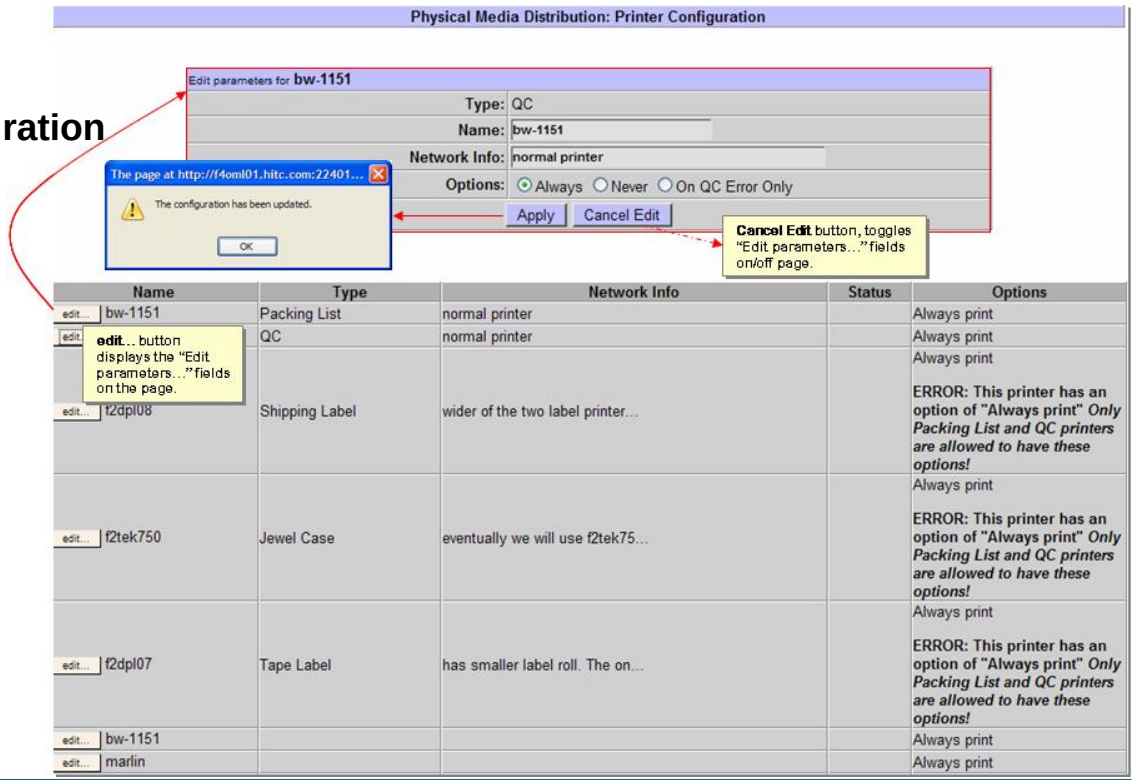
OM GUI
Physical Media Distribution (cont.)

- **PMD – Open Intervention**
  - **Procedure: Responding to Open PM Interventions (cont.)**
    - To fail intervention(s): On the **Intervention For Request <ID>** detail page**,** under **Options** section, click either the **All (Bulk Fail)** checkbox to fail all interventions or the **individual (Sel)** checkbox(es) associated with specific intervention(s), then click the **Bulk Fail** button. In the **Confirm Bulk Fail Action** dialog box, enter **Operator Notes** and/or **Additional e-mail** text in textboxes, as appropriate. Select **Send email** option to notify users whose requests are being failed, then click the **Apply "Bulk Fail"** button.
    - To submit intervention(s): On the **Intervention For Request <ID>** detail page**,** under **Options** section, click the **All (Bulk Submit)** checkbox to fail all interventions or the **individual (Sel)** checkbox(es) associated with specific intervention(s), then click the **Bulk Submit** button.
    - To check granules in a volume: Click the **Volume Name [<number> granule…]** link under the Request ID details page **Volume List** section. The **Granule List for Volume Window** displays**.** After review, click **x-close window** to close granule window.
    - To free-up a device: On the **Intervention For Request <ID>** detail page**,** click **[deallocate this device…]** link, adjacent to the **Current Device** entry, then click **OK** in the confirmation dialog box.
    - Return to the **Order Manager Home** page, on left-pane of OM GUI click the **HOME** link.



OM GUI
Physical Media Distribution (cont.)

- **PMD – Printer Configuration**
  - **The Printer Configuration page handles the configuration of printers used in physical media distribution.**
  - **Printer configuration features two actions:**
    - Add printers.
    - Edit printer parameters.
    - **Figure: PMD Printer Configuration Page and activity displays**

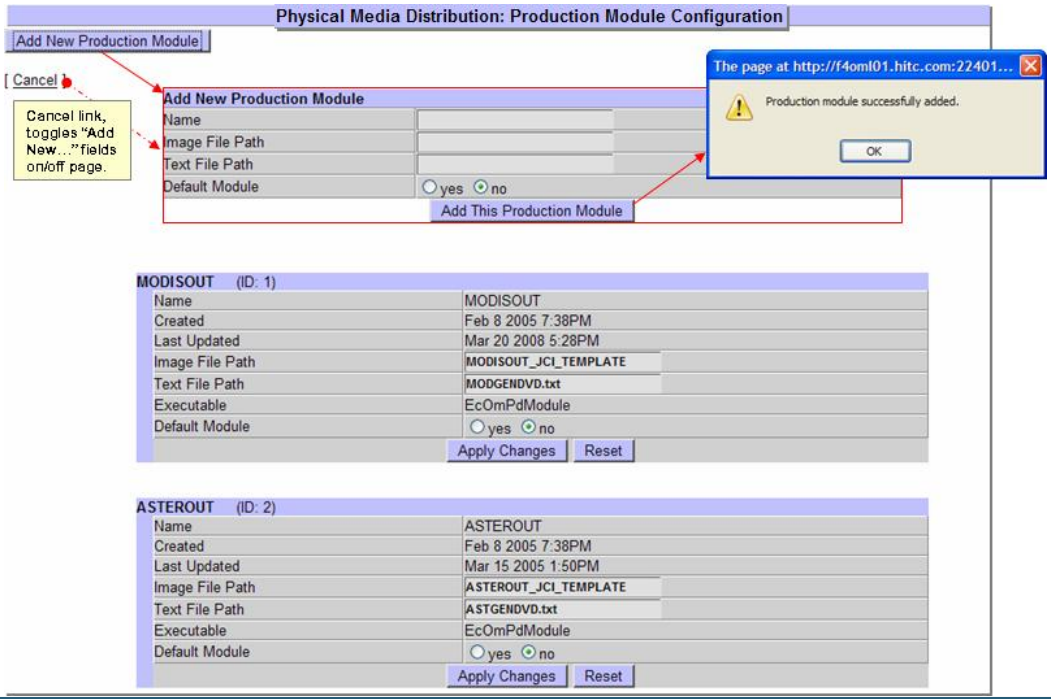


OM GUI
Physical Media Distribution (cont.)

- **PMD – Printer Configuration**
  - **Procedure: Modifying Existing PMD Printer Configuration**
    - Click **Physical Media Distribution** menu, then submenu **Printer Configuration** to display the **PMD: Printer Configuration** page.
    - To edit parameters values: Click the **edit…** button associated with printer (name). In displayed printer parameters window, **change the following values**:
      - Name = **<new_printername>.**
      - Network info = **<new_network_text>.**
      - Options: **select only one.**
        - **Always**, if designated as default module (for packing List and QC printers only).
        - **Never**, if not default module.
        - **On QC Error Only**.
      - Click the **Apply** button to implement changes, then click **OK** at the update confirmation prompt.
    - Return to the **Order Manager Home** page, on left-pane of OM GUI click the **HOME** link.

OM GUI
Physical Media Distribution (cont.)

- **PMD – PM Configuration**
  - **The PMD Module Configuration page displays information for all currently configured production modules. The OM GUI handles the configuration of production modules in physical media creation.**
  - **Production modules can be "added" and parameters values "edited".**
    - **Figure: PMD Production Module Configuration Page and Add Toggle Fields**



OM GUI
Physical Media Distribution (cont.)

- **PMD – PM Configuration**
  - **Procedure: Adding/Modifying PMD Production Module Configuration**
    - Click **Physical Media Distribution** menu, then submenu **PM Configuration** to display the **PMD: Production Module Configuration** page.
    - To edit assigned parameters values for a production module: Type **<new_vaules>** in corresponding **Image File Path** and **Text File Path** textboxes. Change the **production module default**, as appropriate: **yes** to set as default (or **no** as not being the default module). Then click the **Apply Changes** button to implement edits.
    - To add a new production module: Click the **Add New Production Module** button, add **<appropriate_values>** it textboxes. Select **<default>** option, the click **Add This Production Module** button implement new module. At confirmation prompt, click **OK** to acknowledge.
    - Return to the **Order Manager Home** page, on left-pane of OM GUI click the **HOME** link.

OM GUI
Physical Media Distribution (cont.)

- **PMD – Reports**
  - **A HTML display using the web browser print menu function.**
  - **Report Summary page has two display types:**

    1 – Device Report – summary of device statuses: on-line/off-line and free/busy by media type.

    2 – Request Summary Report – displays a quick summary of the PMD requests (in states) from waiting-for-a-device to waiting-for-shipment.

    - **Figure: PMD Report Summary Page**

Physical Media Distribution: Report Summary

Use your browser's print function to print this report (File > Print...)

Device Report

	off-line devices	on-line devices	Free devices	Busy devices
CDROM	0	19	10	0
DLT	1	24	20	5
DVD	0	15	9	0

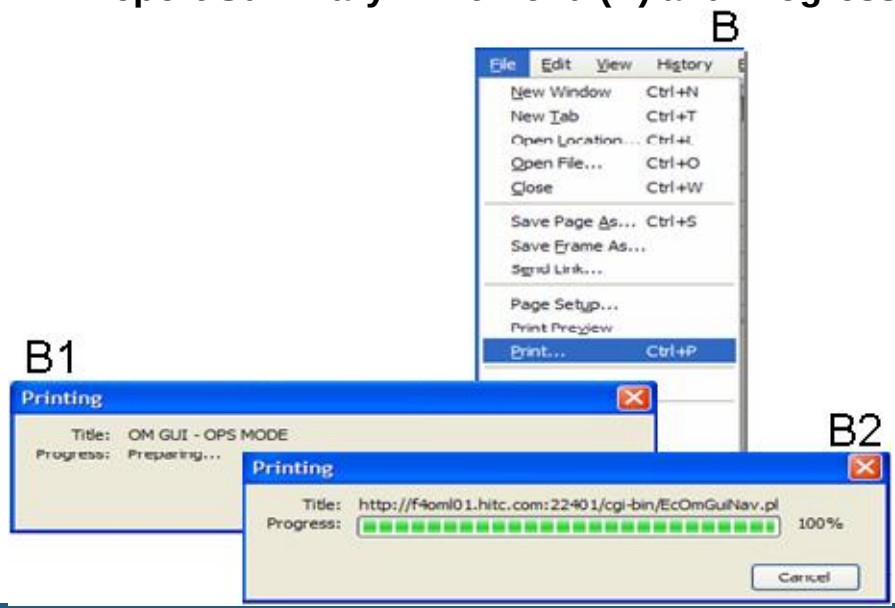
Request Summary Report

	Requests Waiting for Activation	Pending Volume of Media Production
CDROM	1	0.245
DLT	5	57.018

OM GUI
Physical Media Distribution (cont.)

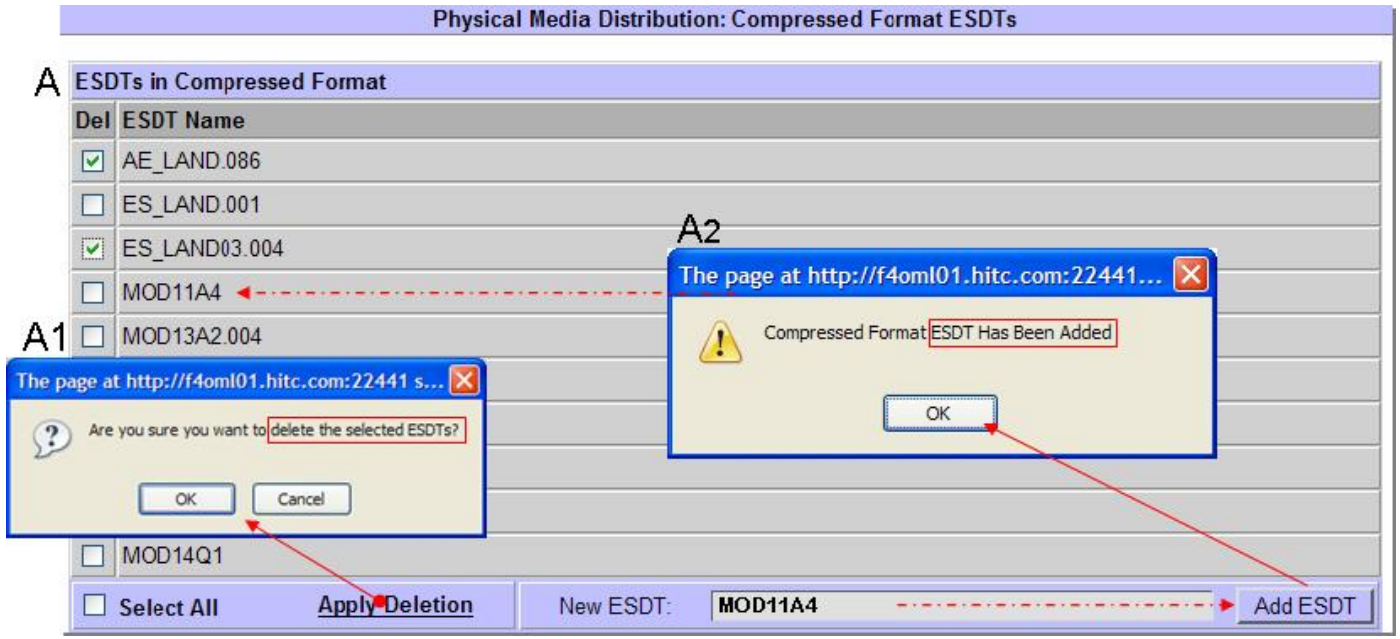
- **PMD – Reports**
  - **Procedure: Printing PMD Reports**
    - Click **Physical Media Distribution** menu, then submenu **Reports** to display the **PMD: Report Summary** page.
    - To print a PMD Report using the web browser: First, **reload the page** to ensure the most current statistics are captured. Next, select **File, Print (Figure B)** from the menu, then select **printer** (and set printer properties, as needed). Click **OK** to print (Figure B1-B2).
    - Return to the **Order Manager Home** page, on left-pane of OM GUI click the **HOME** link.

❖**Figure: PMD Report Summary Print Menu (B) and Progress (B1-B2)**



OM GUI
Physical Media Distribution (cont.)

- **PMD – ESDT Configuration**
  - **The full-capability Operator is allowed to add or remove names of ESDTs, which are stored in compressed format, to/from the PMD ESDTs page.**
    - **Figure: PMD Compressed Format ESDTs Page**



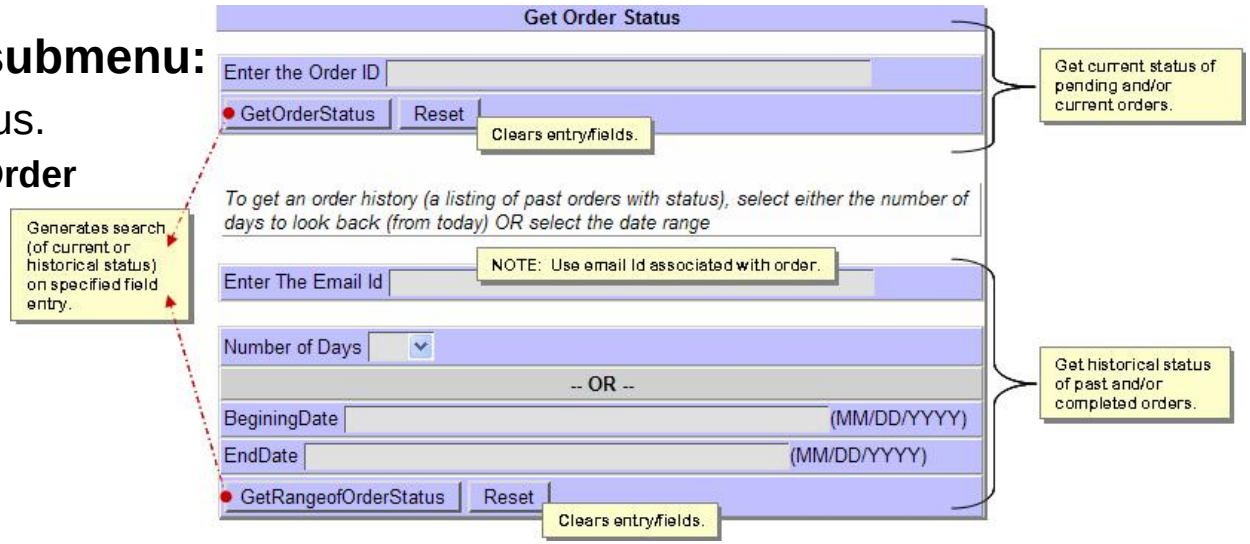
OM GUI
Physical Media Distribution (cont.)

- **PMD – ESDT Configuration**
  - **Procedure: Adding/Deleting Compressed Format ESDTs**
    - Click **Physical Media Distribution** menu, then submenu **ESDT Configuration** to expand the **Physical Media Distribution: Compressed Format ESDTs** page.
    - To add ESDT to the PMD ESDT list: Enter **<new_ESDT_name>** in New ESDT textbox, at right-bottom of page, then click the **Add ESDT** button. At prompt, click **OK** to acknowledge the update. The ESDT list updates.
    - To delete ESDT from the PMD ESDT list: Check **one or more ESDTs** on the list, click the **Apply Deletion** link, at left-bottom of page, then at prompt, click **OK** to acknowledge the deletion. The ESDTs is deleted from list.
    - Return to the **Order Manager Home** page, on left-pane of OM GUI click the **HOME** link.

Order Manager GUI
View Order Status

❑ OM GUI – View Order Status

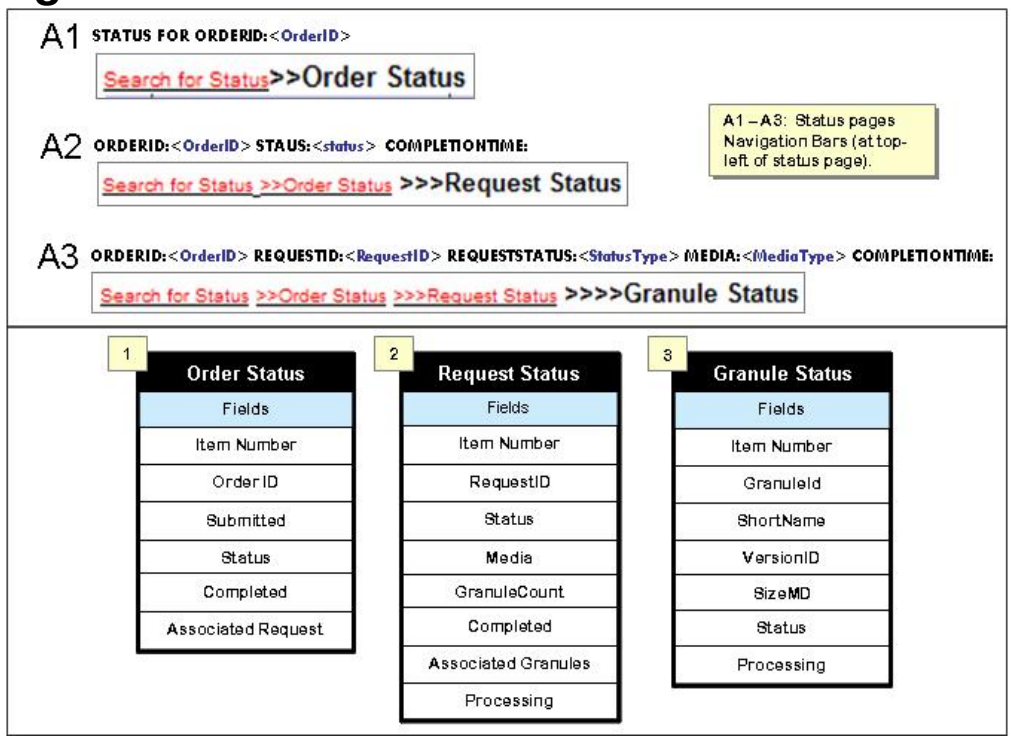
- **The OM GUI Order Status page allows the Operators (Full or Limited-capability) the ability to monitor and/or view the status of orders submitted via the OM GUI.**
- **The Operator can view detailed information in three status levels:**
  - Order Status
  - Request Status
  - Granule Status.
- **View Order Status submenu:**
  - OM GUI Order Status.
    - ❖ **Figure: Get Order Status Page**



OM GUI

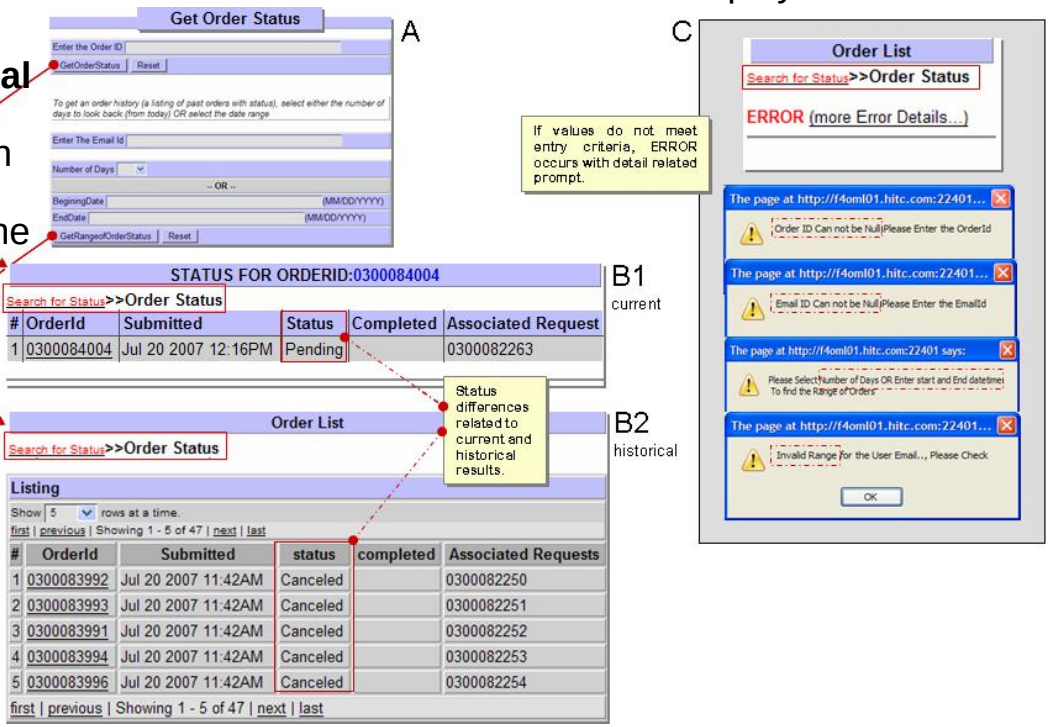
View Order Status (cont.)

- **View Order Status – OM GUI Order Status**
  - **Provides a visual display of viewing multiple levels of a particular order status**
  - **The Operator can search through to the lower levels of the order, the status path is capture as a navigation bar.**
    - **Figure: Get Order Status Pages Navigation Bars and Fields**



OM GUI
View Order Status (cont.)

- **View Order Status – OM GUI Order Status**
  - **Procedure: Viewing Distribution Requests Order Status Pages**
    - Click **View Order Status** menu, then submenu **OM GUI Order Status** to display the **Get Order Status** page.
    - To retrieve a **current order status**: First, **Enter the Order ID** using a complete 10 digit order id. Next, click **GetOrderStatus** button to retrieve the most current status and to display the **STATUS FOR ORDERID:<OrderID>** page.
    - To retrieve the **status of a historical order**: First, **Enter the Email ID** address (id must be associated with an historical order) and select the number of **Number of Days** from the list box – select **30**. Or, enter a valid range using the **BeginningDate** (MM/DD/YYYY) and **EndDate** (MM/DD/YYYY) text fields. Next, click the **GetRangeofOrder** Status button to retrieve the most current status and to display the **Order List** page of related historical status(es).
      - **Figure: Order Status Pages (A-B2)**

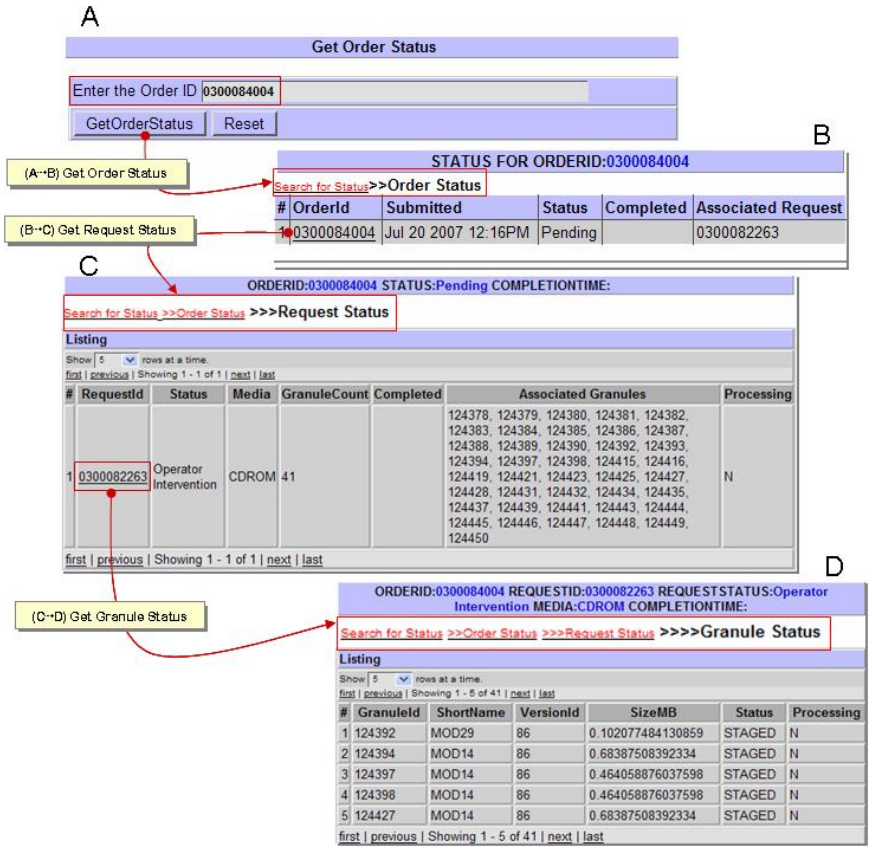


OM GUI
View Order Status (cont.)

- **View Order Status – OM GUI Order Status**
  - **Procedure: Viewing Distribution Requests Order Status Pages (cont.)**
    - To retrieve the **status of a current order detials**: First, **Enter the Order ID** 10 digit order id from the **Get Order Status** page (Figure A). Next, click **GetOrderStatus** button to retrieve the most current status and to display the **STATUS FOR ORDERID:<OrderID>** page. Click the **OrderId<number>** under the **OrderID** column to display the **Listing** details of the **Request Status** (Frame C)
    - To retrieve the **Granule Status** (Frame D): Click the **RequestID<number>** under the **RequestID** column to display the details of the **Granule Status**.
    - Using the navigation bar, click the **Search for Status** link to return to the **Get Order Status** page (Frame A) and to perform other order status searches.
    - Return to the **Order Manager Home** page, on left-pane of OM GUI click the **HOME** link.

OM GUI
View Order Status (cont.)

- **View Order Status – OM GUI Order Status**
  - **Procedure: Viewing Distribution Requests Order Status Pages (cont.)**
    - **Figure: Order Status Details Pages (A-D)**



Order Manager GUI
Logs

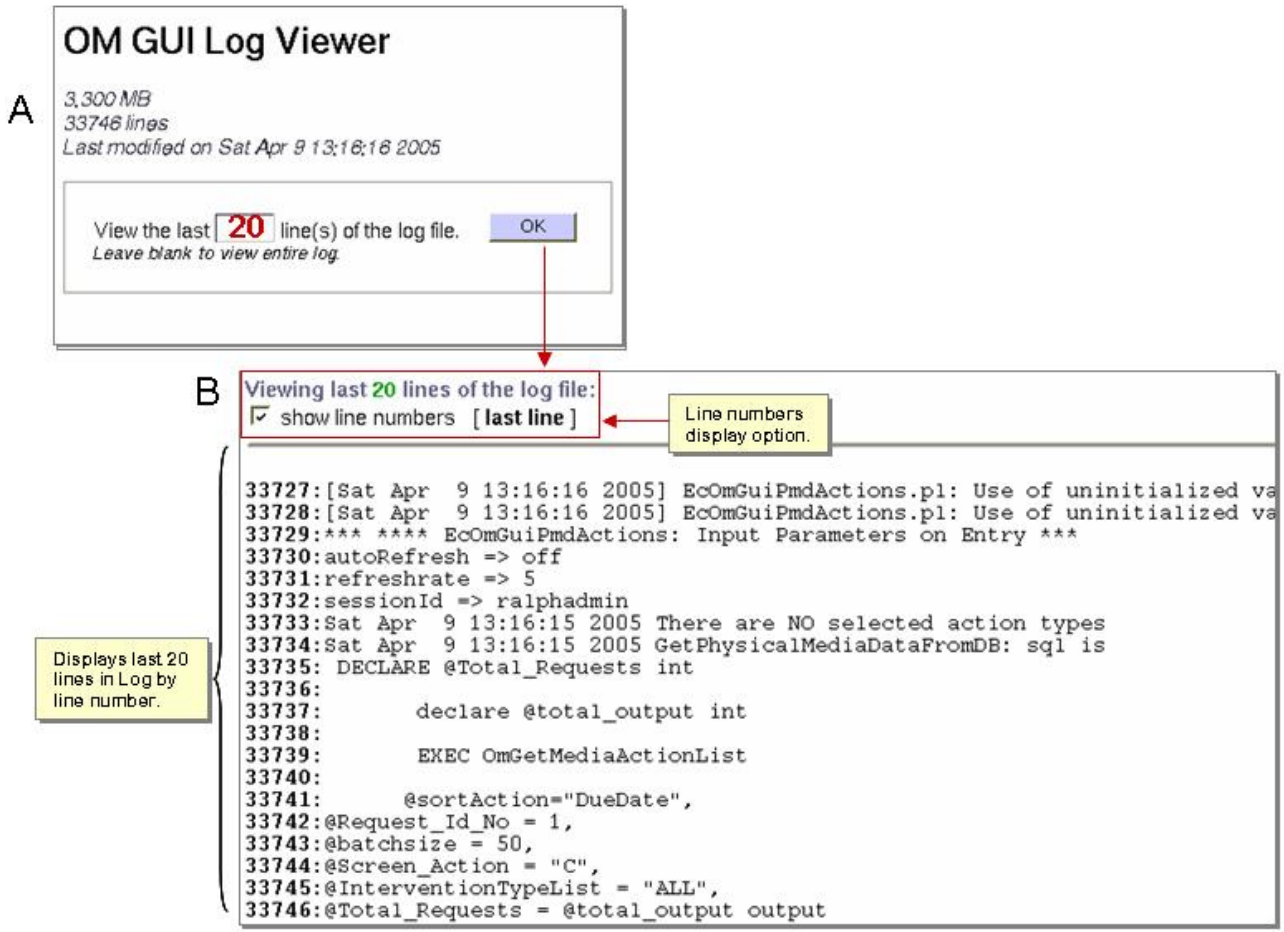
❑ OM GUI – LOGS

- **The OM GUI Log keeps record of every page run and every stored procedure called within those pages.**
- **The log aid the System Administrator in problem resolution when errors are encountered.**
  - EcOMGui.log is the log filename.
  - The log file path is typically in directory [/usr/ecs/MODE/CUSTOM/WWW/OMS/cgi-bin/logs] on the Data Pool Server host [x0dps01] where the OM GUI is installed.
- **Logs submenu:**
  - OM GUI Log Viewer.

OM GUI
Logs (cont.)

- **Logs – OM GUI Log Viewer**
  - **A convenient diagnostic tool that displays all current activity in the OM GUI and allows the Operator the capability to view entries captured (from page runs and stored procedures) in the log file.**
  - **The log file that the log viewer displays is located under the [cgi-bin/logs] directory where the OM GUI is installed:**
    - It is not the web server log or the SYSLOG.
    - It is a log [EcOmGui.log] that is specifically generated by and for the OM GUI.
  - **Procedure: Viewing the OM GUI Log**
    - Click **Logs** menu, then submenu **OM GUI Log Viewer** to display its page
    - To view the log file: Enter **20** in the **View the last ____line(s) of the log file** textbox, then click the **OK** button to generate a 20 page history.
    - **NOTE:** The log viewer's functions similar to that of the UNIX "tail" command – the number of lines need to be seen must be specified. Otherwise, if 0 is specified or left blank the entire log file will display.
    - Return to the **Order Manager Home** page: on left-pane of OM GUI, click the **HOME** link.

OM GUI
Logs (cont.)



❑ Logs – OM GUI Log Viewer

❖ **Figure: OM GUI Log Viewer Page (A) and Log File Display (B)**

Order Manager GUI
Admin Tools

❑ OM GUI – Admin Tools

- **The OM GUI Admin (Administrator) Tools page controls Operators' profiles and configuration for every filed, on every page that is generated within the OMS GUI.**
- **Admin Tools submenus:**
  - Server/Database Parameters – to check and modify server/database parameters values.
  - Media Parameters – to check and modify media parameters values.
  - Aging Parameters – to configure aging parameters (rules) values.
  - FtpPush Policy – to set permissions for FTP Push Policy Configuration Pages.
  - Actions Pages – provides a set of predefined permissions to set, remove, suspend or resume any/all related actions and/or related configurations on any/all related OM GUI pages
- **This page is restricted for use by the site Administrator only and will not be trained.**